



RADIO BATTERY PLUGS



701

No. 701.....List, \$0.11 ea.
3-prong large Plug, for 45 volt "B" PORTABLE batteries. (Eveready 482, etc.)



702

No. 702.....List, \$0.25 ea.
3-prong Plug, with Fahnestock Clips, for STANDARD 4½ volt "C" batteries. (Eveready 771, etc.)



703

No. 703.....List, \$0.40 ea.
5-prong Plug, with Fahnestock Clips, for STANDARD 22½ volt "C" batteries. (Eveready 768, etc.)



704

No. 704.....List, \$0.11 ea.
2-prong Plug, for PORTABLE 4½ volt "A" batteries. (Eveready 746, etc.)



705

No. 705.....List, \$0.11 ea.
3-prong small Plug, for 45 volt "B" PORTABLE batteries. (Eveready 738, 482, etc.)



706

No. 706.....List, \$0.11 ea.
2-prong small Plug, for 1½ volt "A" PORTABLE batteries. (Eveready 742, etc.)



707

No. 707.....List, \$0.13 ea.
4-prong large Plug, for combination 1½ volt "A" and 90 volt "B" PORTABLE Packs. (Eveready 748, etc.)



708

No. 708.....List, \$0.11 ea.
2-prong Plug, for 6 volt PORTABLE "A" batteries. (Eveready 718, 747, etc.)



709

No. 709.....List, \$0.13 ea.
4-prong Plug, for combination 6 volt "A" and 90 volt "B" PORTABLE Packs. (Burgess 2F4B60, etc.)



710

No. 710.....List, \$0.11 ea.
2-prong plug with guide pin, for 7½ volt PORTABLE "A" batteries. (Burgess G5, etc.)



711

No. 711.....List, \$0.13 ea.
4-prong small Plug, for combination 1½ volt "A" and 68 volt, 75 volt, or 90 volt "B" PORTABLE batteries. (Philco P60-A41, Burgess 4GA42, 6FA60, etc.)



712

No. 712.....List, \$0.22 ea.
8-prong Plug, with guide pin, for combination 7½ volt "A" and 68 volt or 90 volt "B" PORTABLE packs. (Philco P87, P841, Sky Chief models, Burgess D5A60, etc.)



713

No. 713.....List, \$0.09 ea.
Male Snap-Fastener for connecting to negative terminal of miniature 67½ volt "B" PORTABLE batteries: Eveready No. 467 Minimax, Burgess XX-45, etc.



714

No. 714.....List, \$0.11 ea.
Female Snap-Fastener for connecting to positive terminal of miniature 67½ volt "B" PORTABLE batteries: Eveready No. 467 Minimax, Burgess XX-45, etc.



715

No. 715.....List, \$0.25 ea.
3-prong large Plug, with Fahnestock Clips, for STANDARD 45 volt "B" batteries.



716

No. 716.....List \$0.20 ea.
2-prong Plug, with Fahnestock Clips, for STANDARD and PORTABLE 1½ volt "A" batteries.



717

No. 718.....List \$0.13 ea.
4-prong large Plug, for combination 6V "A" and 75V "B" battery packs such as Zenith Z-675, Burgess G4B50, etc.



719

No. 719.....List, \$0.16 ea.
5-prong large Plug, for combination 6V "A" and 90V "B" battery packs such as Zenith Z-659, Burgess F4B60, etc.



720

No. 720.....List, \$0.13 ea.
4-prong small Plug (has three thin pins and one thick pin) for combination 6V "A" and 90V "B" battery packs such as Philco P60ASF4, Burgess 2F4A60, etc.



721

No. 721.....List, \$0.22 ea.
8-prong Octal plug, for combination 1½ volt and 90-volt Portable "AB" Packs, such as Burgess 4FA60, General P60A4L, Zenith Z-9-B, etc.



722

No. 722.....List, \$0.20 ea.
2-prong plug with Fahnestock Clips, for STANDARD 3-volt. "A" batteries such as Rayovac P9403, etc.



723

No. 723.....List, \$0.11 ea.
2-prong plug without clips, for STANDARD 3-volt "A" batteries such as Rayovac P9403, etc.



724

No. 725.....List, \$0.11 ea.
3-prong plug (has two thin pins and one thick pin), for STANDARD 4½ volt "C" batteries such as Eveready 771, etc.



725

No. 726.....List, \$0.22 ea.
7-prong large plug for combination 135 volt "B" and 9 volt "C" batteries such as used on Philco 37-33, 37-38, 38-33, and 38-38 battery receivers and type 9068, etc.



726

No. 727.....List, \$0.27 ea.
Special 8-prong large plug for combination 135 volt "B" and 13½ volt "C" batteries, such as used on Philco Models 34, 34A, 39, and 39A battery receivers, etc.



727

No. 728.....List, \$0.22 ea.
5-prong plug for standard 22½ volt "C" battery (Eveready 768, etc.) Same as our catalog No. 703, except without Fahnestock clips.



728

No. 729.....List, \$0.11 ea.
Two prong plug with large pins, one thin and one thick. Used extensively in portable batteries.



729

No. 730.....List, \$0.22 ea.
5-prong small plug, including guide pin, for combination 1½ volt "A" and 75 volt or 90 volt "B" portable batteries.



730

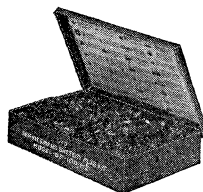
HANDY SERVICEMEN'S KIT

Contains 100 Battery Plugs—Sturdy Metal Container. Supplies with reference chart giving full information on each plug.

*

For portable and farm radios, test equipment and countless other present-day devices using plug-in batteries.

Model BP, 100 MC—Servicemen's Net Cost.....\$7.33



50 ASSORTED PLUGS IN CARDBOARD CONTAINER KIT

Contains 50 fast moving battery plugs in handy cardboard container. Useful technical data included. A necessity for every radio serviceman!

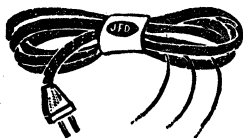
MODEL BP-50
SERVICEMEN'S NET COST.....\$3.25



New Enlarged Line of AC-DC RESISTANCE LINE CORDS

STANDARD 3 TERMINALS AC-DC RESISTANCE CORDS

FLEXIBLE, STURDY CORDS, 3-TERMINAL TYPE, WITH COLOR-CODED, TINNED LEADS



Attractive individual
Cartons

No.	Ohms	List
*2180	135	\$1.17
*2181	160	1.17
*2182	180	1.17
*2183	200	1.17
2184	220	1.17
2185	250	1.17
2186	290	1.17
2187	300	1.17
2188	330	1.17
2189	350	1.17
2190	390	1.17
2450	450 (High Resist.)	1.72

*Note: 135, 160, 180, and 200 ohm cords can also be used for single light 20 and 15 watt fluorescent fixtures.

TAPPED 4 TERMINAL AC-DC RESISTANCE CORDS

Pilot light resistor shunt built into the line cord. Used on Emerson, Zenith, Sparton, R. C. A., General Electric, Wells-Gardner, Sears Roebuck, Fada, Admiral, Air King, Detrola, Crosley, Garod, and others.



No. 2176—160 OHMS—TAPPED AT 24 OHMS
For sets using tubes having a voltage drop of approximately 69 volts as 2-25 volt tubes and 3-6.3 volt tubes plus single pilot light or similar combination \$1.38

2195—165 OHMS—TAPPED AT 30 OHMS
There is a large demand for this tapped line cord 1.38

2177—180 OHMS—TAPPED AT 25 OHMS
For sets using tubes having a voltage drop of approximately 63 volts as 2-25 volt tubes and 2-6.3 volt tubes plus a single pilot light or similar combination 1.38

2178—200 OHMS—TAPPED AT 25 OHMS
For sets using tubes having a voltage drop of approximately 57 volts as 1-25 volt tube, 1-12 volt tube and 3-6.3 volt tubes and a single pilot light. May also be used for sets using tubes having a voltage drop of 63 volts, (2-25 volt and 2-6.3 volt tubes) if high line voltage (125 volts) is encountered.... 1.38

2179—200 OHMS—TAPPED AT 40 OHMS
For sets using tubes having a voltage drop of approximately 57 volts as 1-25 volt tube, 1-12 volt tube and 3-6.3 volt tubes and two pilot lights in series 1.38

No. 2174—280 OHMS—TAPPED AT 40 OHMS
For sets using tubes having a voltage drop of approximately 32 volts as 2-12 volt tubes and 1-6.3 volt tube or 5-6.3 volt tubes or similar combinations using 2 pilot light in series \$1.38

2164—360 OHMS—TAPPED AT 80 OHMS
Used in Garod Model BP-20. See No. 2196 for specifications 1.72

2166—430 OHMS—TAPPED AT 80 OHMS
For Farnsworth Model CD59. See No. 2196 for specifications 1.72

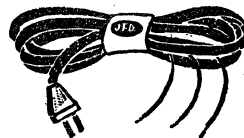
2156—510 OHMS—TAPPED AT 80 OHMS
For Fada. See No. 2196 for specifications 1.72

2196—560 OHMS—TAPPED AT 80 OHMS
Tapped at 80 ohms for plate of rectifier. Designed with voltage dropping resistor to plate of rectifier. Avoids necessity of using B+ resistor. This cord used extensively 1.72

2158—960 OHMS—TAPPED AT 80 OHMS
For G. E. Model L622. See No. 2196 for specifications 1.72

2165—1950 OHMS—TAPPED AT 360 OHMS
Used extensively in sets such as Crosley Model 27BD, Admiral Model 28-G-5, and other sets with similar circuits 2.06

HIGH RESISTANCE CORDS



No. 2197 For 3-way portable radios. AC-DC battery. New high resistance type cord, has 560 ohms resistance. Many thousands of sets using this identical cord are now in use. This popular replacement cord should be stocked by every serviceman! Individually packaged \$1.72

2157—For AC-DC Sets.

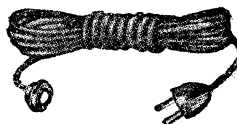
This cord has 960 ohms resistance, and is used wherever 45Z3 rectifier tube is employed. (For pocket type radios, such as: Admiral, Fada Sentinel, Sonora, Motorola, Detrola, Farnsworth, etc.) Individually packaged 1.72

REPLACEMENT LINE CORD FOR MOTOROLA SETS



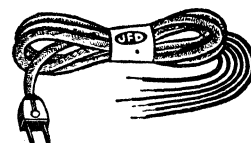
No. 2198—8 ft. cord containing 2 resistance elements—1100 and 280 ohms. Has 4 terminals. Essential replacement for all Motorola portables. Nos. 41D, 51D, 52D, 41H. \$2.06

COMBINATION ANTENNA WIRE and STRAIGHT AC CORD



No. 2168—3-wire cord with special female socket to fit sets which have three prong male plug, used in Sentinel, Admiral, Belmont, Sonora, etc. Individually packaged \$1.72

UNIVERSAL AC-DC RESISTANCE LINE CORDS



No. 2175—This line cord replaces AC-DC cords from 220 ohms to 300 ohms. Can be used for either standard three terminal or tapped cord..... \$1.72

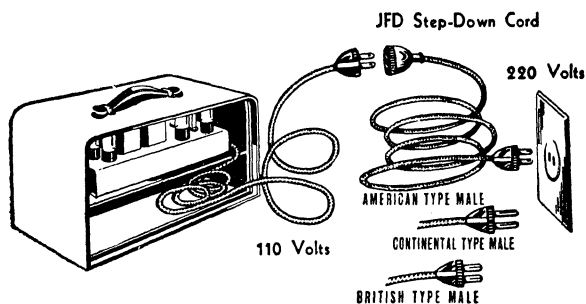


RESISTOR LINE CORDS

STEP-DOWN — AC-DC

(Step-Down from 220 V. to 110 V.)

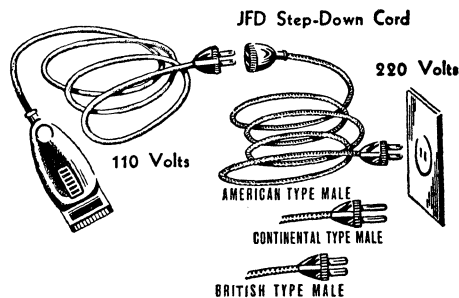
JFD STEP-DOWN LINE CORDS FOR RADIOS



Cat. No.	Description	List Price
2191	220V-110V Stepdown using .3 amp. radio tubes. American Male Plug	\$2.40
2193C	220V-110V Stepdown using .3 amp. radio tubes. Continental Male Plug	2.40
2193B	220V-110V Stepdown using .3 amp. radio tubes. British Male Plug	2.40
2192	220V-110V Stepdown using .15 amp. radio tubes. American Male Plug	2.40
2194C	220V-110V Stepdown using .15 amp. radio tubes. Continental Male Plug	2.40
2194B	220-110V Stepdown using .15 amp. radio tubes. British Male Plug	2.40

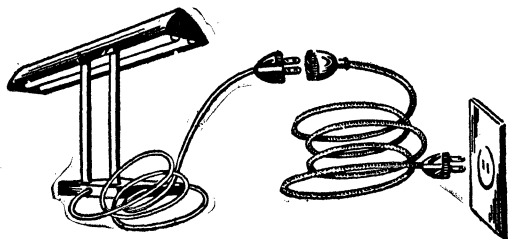
JFD STEP-DOWN LINE CORDS FOR ELECTRIC RAZORS

Cat. No.	Description	List Price
2203	220V-110V Stepdown for Remington Rand Razor 15W. American Female and American Male.....	\$2.60
2203B	220V-110V Stepdown for Remington Rand Razor 15W. American Female and British Male.....	2.60
2203C	220V-110V Stepdown for Remington Rand Razor 15W. American Female and Continental Male.....	2.60
2204	220V-110V Stepdown for Schick Razor 9W, Sunbeam Shavemaster 15W, Williams Roto-Shaver, Gillette, Gem 10W with American Female and American Male	2.60
2204B	220-110V Stepdown for Schick Razor 9W, Sunbeam Shavemaster 15W, Williams Roto-Shaver, Gillette, Gem 10W with American Female and British Male	2.60
2204C	220V-110V Stepdown for Schick Razor 9W, Sunbeam Shavemaster 15W, Williams Roto-Shaver, Gillette, Gem 10W with American Female and Continental Male	2.60
2205	220V-110V Stepdown for Packard Razor 6W with American Female and American Male	2.60
2205B	220V-110V Stepdown for Packard Razor 6W with American Female and British Male	2.60



Cat. No.	Description	List Price
2205C	220V-110V Stepdown for Packard Razor 6W with American Female and Continental Male	\$2.60

JFD AC-DC LINE CORDS FOR FLUORESCENT FIXTURES



Cat. No.	Description	List Price
2181FL	165 ohm, for 20 watt bulb, 117 volts, 6 feet long	\$1.17
2181FL-2	2-Two 165 ohm windings, for two 20 watt bulbs, 117 volts, 6 feet long.....	2.00
2182FL	180 ohm, for 15 watt bulb, 117 volts, 6 feet long	1.17
2200FL	2-Two 180 ohm windings, for two 15 watt bulbs, 117 volts, 6 feet long.....	2.00

Cat. No.	Description	List Price
2190FL	390 ohm, for 8 watt bulb, 117 volts, 8 feet long.....	\$1.17
2190FL-2	2-Two 390 ohm windings, for two 8 watt bulbs, 117 volts, 8 feet long	2.00
2475FL	475 ohm, for 6 watt bulb, 117 volts, 8 feet long.....	1.72
2475FL-2	2-Two 475 ohm windings, for two 6 watt bulbs, 117 volts, 8 feet long	2.00

JFD Foreign Adapter

Converts American Male plug to Continental and British Male plug—quickly and easily! Converts foreign receptacle to standard American receptacle.

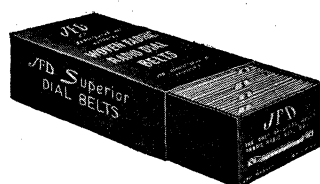


No.	List
2-449 With Continental prongs	\$0.33
2-450 With British prongs .....	.33



RADIO DIAL BELT KITS

Save Time



JFD DIAL BELTS FOR SERVICEMEN

JFD offers you the choice of three kit assortments containing 25, 50 or 100 of the most popular belts—in a sturdy metal index cabinet. Included with each kit are 1 MEASUREMENT CHART, a CONVERSION CHART and a 64-page BELT BOOKLET covering all types of belts for more than 1,500 radio models.

BETTER GRIP: Maximum friction on the inside surface, nonslip grip.

THREE PLY CONSTRUCTION: Three layers of woven fabric impregnated with high-grade synthetic rubber.

EXACT FIT: Precision-made to correct length, guarantees accurate tuning. Easy to install, no adjustments necessary. USE JFD BELTS ALWAYS.

**EACH
BELT
LIST
PRICE
\$0.25**



USE THE BELT THE MANUFACTURERS USE

JFD WOVEN FABRIC DIAL BELTS

Buy 'Em By The Box!

	List Price
B25A Belt Kit Assortment of 25.....	\$6.70
B50A Belt Kit Assortment of 50.....	13.40
B100A Belt Kit Assortment of 100.....	25.00

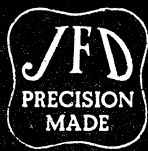
JFD DIAL BELT MANUAL

Model No.	JFD Belt No.	Length When Open	Model No.	JFD Belt No.	Length When Open	Model No.	JFD Belt No.	Length When Open	Model No.	JFD Belt No.	Length When Open	Model No.	JFD Belt No.	Length When Open
ACRATEST			AIRLINE (Cont.)			ARVIN (Cont.)			CASE (Cont.)			CROSLLEY (Cont.)		
24BH	8	8-3/4"	62-190	16	9-5/8"	1127	89	17"	1101	40	12-1/2"	models	58	6-15/16"
30C	9	8-23/32"	62-192	63	9-9/16"	1237	90	19-3/4"	1102	40	12-1/2"	CROWE MFG. CO.		
31C	9	8-23/32"	62-194	16	9-5/8"	1237D	90	19-3/4"	16SME	40	12-1/2"	3187	84	9"
AM29C	9	8-23/32"	62-195	64	10-9/16"	1247	90	19-3/4"	19A	40	12-1/2"	3489	20	10-7/8"
AM79H	9	8-23/32"	62-196	16	9-5/8"	1247A	90	19-3/4"	19RSME	40	12-1/2"	3594	49	15-11/32"
AM111G	9	8-23/32"	62-197	64	10-9/16"	1247D	90	19-3/4"	27SME	40	12-1/2"	3631	1	6-13/16"
ADMIRAL—Straight Face Chassis			62-206	16	9-5/8"	1427	90	19-3/4"	110RSME	40	12-1/2"	7457	17	9-11/32"
AM3	67	12-7/16"	62-207	63	9-9/16"	1427D	90	19-3/4"	CORONADO			7878	13	8-13/16"
AM3-86-57	67	12-7/16"	62-209	63	9-9/16"	Pt. #28-			ODM	66	10-1/16"	7879	2	7"
AM4	67	12-7/16"	62-215	16	9-5/8"	13838	94	14-39/64"	ODM-578	66	10-1/16"	9824	55	7-7/8"
AM4-58	67	12-7/16"	62-216	16	9-5/8"	Pt. #28-			WG	66	10-1/16"	9905	59	8-3/8"
AM5	67	12-7/16"	62-218	63	9-9/16"	15647	93	17-1/8"	8X35	63	9-9/16"	10305	78	12-7/32"
AM6	67	12-7/16"	62-220	63	9-9/16"	BELMONT			8X36	24	10-1/2"	10565	5	7-3/4"
AM6-86-57	67	12-7/16"	62-221	63	9-9/16"	556	19	10"	11B	21	10-15/16"	11117	39	12-5/8"
AM7	67	12-7/16"	62-223	63	9-9/16"	685	19	10"	457	16	9-5/8"	11165	16	9-5/8"
AM7-86	67	12-7/16"	62-226	51	16-11/16"	686	26	10-1/4"	516	16	9-5/8"	11175	7	7-28/32"
AM8	67	12-7/16"	62-228	51	16-11/16"	770	26	10-1/4"	552	47	14-11/16"	12704	90	19-3/4"
AM8-59	67	12-7/16"	62-249	23	10-7/32"	746A	19	10"	1170	5	7-3/4"	13628	16	9-5/8"
ADMIRAL Tilt Face Chassis			62-250	51	16-11/16"	778	19	10"	650A	47	14-11/16"	13636	19	10"
AM3	69	12-3/32"	62-251	27	10-1/8"	786	19	10"	686	47	14-11/16"	13755	81	17-3/4"
AM3-87-88	69	12-3/32"	62-252	26	10-1/16"	787	26	10-1/4"	740	19	10"	13762	74	22-3/4"
AM4	69	12-3/32"	62-255	23	10-7/32"	822	19	10"	770	19	10"	13841	82	18-3/4"
AM4-88	69	12-3/32"	62-257	23	10-7/32"	845A	19	10"	778	19	10"	14039	22	10-11/16"
AM5	69	12-3/32"	62-259	51	16-11/16"	878	4	8-9/32"	787	19	10"	DE JUR AMSCO		
AM6	69	12-3/32"	62-301	4	8-9/32"	878A	7	7-29/32"	810	19	10"	10-608	1	6-13/16"
AM6-87-88	69	12-3/32"	62-303	65	11-3/8"	878B	7	7-29/32"	822	19	10"	10-609	95	11-37/64"
AM7	69	12-3/32"	62-307	23	10-7/32"	879	53	8-7/8"	850B	11	8-3/32"	DETROLA		
AM8	69	12-3/32"	62-308	92	16"	947	95	11-37/64"	17447	47	14-11/16"	155	95	11-37/64"
AM8-89	69	12-3/32"	62-316	23	10-7/32"	1070	26	10-1/4"	17514	4	8-9/32"	163	35	11-9/32"
F3	39	12-5/8"	62-317	23	10-7/32"	1078B	19	10"	17628	26	10-1/4"	164	35	11-9/32"
8K	87	16-3/8"	62-318	51	16-11/16"	112-125	26	10-1/4"	17676	32	11-1/4"	165	35	11-9/32"
8KU	87	16-3/8"	62-319	23	10-7/32"	112-176	55	7-7/8"	112-125	26	10-1/4"	DEWALD		
8T	87	16-3/8"	62-328	23	10-7/32"	112-194	12	8-25/32"	112-176	55	7-7/8"	901	41	12-1/8"
8TU	87	16-3/8"	62-338	51	16-11/16"	1170	4	8-9/32"	112-194	12	8-25/32"	1102	41	12-1/8"
9G	68	17-5/8"	62-358	51	16-11/16"	1170A	7	7-29/32"	22CM-576	26	10-1/4"	EMERSON SERIES		
11A	68	17-5/8"	62-368	51	16-11/16"	1170B	3	7-23/32"	26FM-552	26	10-1/4"	A	59	8-3/8"
11S	68	17-5/8"	62-407	23	10-7/32"	1170C	7	7-29/32"	CROSLLEY			AA	3	7-23/32"
14S	68	17-5/8"	62-408	92	16"	1171	53	8-7/8"	636	36	11-3/4"	AB	18	10-21/32"
16R	68	17-5/8"	62-409	51	16-11/16"	1172	4	8-9/32"	726	36	11-3/4"	AC	59	8-3/8"
16S	68	17-5/8"	62-416	23	10-7/32"	1172A	7	7-29/32"	816	36	11-3/4"	AE	14	8-5/8"
16V	68	17-5/8"	62-418	51	16-11/16"	1174	4	8-9/32"	916	36	11-3/4"	AF	56	7-15/32"
86	67	12-7/16"	62-428	23	10-7/32"	BOSCH			1016	78	12-7/32"	AG	18	10-21/32"
139-11A	68	17-5/8"	62-430	23	10-7/32"	660	29	11"	1117	2	7"	AH	56	7-15/32"
140-16S	68	17-5/8"	62-448	51	16-11/16"	670	15	9-1/2"	1126	36	11-3/4"	AJ	56	7-15/32"
144-11A	68	17-5/8"	62-458	51	16-11/16"	670C	15	9-1/2"	1127	2	7"	AL	59	8-3/8"
144-16S	68	17-5/8"	AIRMASTER			670S	15	9-1/2"	1137	36	11-3/4"	ALLW	56	7-15/32"
AIRLINE			All Nos.	62	8-7/16"	678	15	9-1/2"	1155	52	10-3/4"	AM	3	7-23/32"
62-179	16	9-5/8"	ARVIN			680	15	9-1/2"	1216	36	11-3/4"	AP	56	7-15/32"
62-180	63	9-9/16"	617	89	17"	CAPEHART			1217	2	7"	AR	56	7-15/32"
62-182	63	9-9/16"	617B	89	17"	3650	57	7-9/32"	1227	2	7"	AS	56	7-15/32"
62-185	63	9-9/16"	618B	47	14-11/16"	CASE			1316	36	11-3/4"	AW	56	7-15/32"
62-187	63	9-9/16"	627	89	17"	701	40	12-11/16"	1336	36	11-3/4"	B	3	7-23/32"
			627B	89	17"	801	40	12-1/2"	1516	36	11-3/4"	(Continued on next page)		
			628B	47	14-11/16"	802	40	12-1/2"	Manual tuning all models			Electric tuning all models		
			927	89	17"	1001	40	12-1/2"	Manual tuning all models			Electric tuning all models		



DIAL BELT MANUAL

Model No.	JFD Belt No.	Length When Open	Model No.	JFD Belt No.	Length When Open	Model No.	JFD Belt No.	Length When Open	Model No.	JFD Belt No.	Length When Open	Model No.	JFD Belt No.	Length When Open
EMERSON SERIES (Cont.)			EMERSON (Cont.)			F'BKS-MORSE (Cont.)			GRUNOW (Cont.)			LAFAYETTE (Cont.)		
BF	3	7-23/32"	C138	18	10-21/32"	7D	77	13-1/16"	1198	39	12-5/8"	MB6	40	12-1/2"
C	18	10-21/32"	C139	18	10-21/32"	8A	54	12-1/4"	1201	48	15-1/32"	McMURDO-SILVER		
D	18	10-21/32"	C140	18	10-21/32"	58	32	11-1/4"	HALLICRAFTERS			All Models 76		
F	3	7-23/32"	C142	18	10-21/32"	72	32	11-1/4"	5PA	17	9-11/32"	MAJESTIC		
G	3	7-23/32"	D5	18	10-21/32"	73	32	11-1/4"	5T	76	9-1/8"	New Type Dial		
H	59	8-3/8"	D134	18	10-21/32"	82	9	8-23/32"	S14	63	9-9/16"	65	2	7"
J	57	7-9/32"	D136	18	10-21/32"	90	9	8-23/32"	HOWARD			66	2	7"
K	61	7-3/32"	D138	18	10-21/32"	91	40	12-1/2"	450	21	10-15/16"	75	2	7"
KL16	61	7-3/32"	D139	18	10-21/32"	100	9	8-23/32"	518	36	11-3/4"	76	2	7"
L	3	7-23/32"	D140	18	10-21/32"	110	9	8-23/32"	520	36	11-3/4"	85	2	7"
LLW	56	7-15/32"	D142	18	10-21/32"	120	4	8-9/32"	565	36	11-3/4"	86	2	7"
LI37	3	7-23/32"	D146	18	10-21/32"	GAROD			568	36	11-3/4"	650	2	7"
M	18	10-21/32"	F117	3	7-23/32"	370	19	10"	568R	43	12-1/16"	750	2	7"
P	11	8-3/32"	F122	3	7-23/32"	370A	19	10"	575	36	11-3/4"	850	53	8-7/8"
S	62	8-7/16"	F133	3	7-23/32"	271	19	10"	580	36	11-3/4"	1050	53	8-7/8"
X	18	10-21/32"	F135	3	7-23/32"	380	52	10-3/4"	585	36	11-3/4"	1056	74	22-3/4"
Z	3	7-23/32"	F141	3	7-23/32"	381	52	10-3/4"	718APC	43	12-1/16"	1058	10	8-10/16"
A130	59	8-3/8"	G4	3	7-23/32"	731	19	10"	718C	43	12-1/16"	1250	53	8-7/8"
A132	59	8-3/8"	GI27	3	7-23/32"	803E	16	9-5/8"	718FM	43	12-1/16"	1356	74	22-3/4"
A148	59	8-3/8"	H5	59	8-3/8"	830	52	10-3/4"	KEYSTONE			1656	74	22-3/4"
AA131	3	7-23/32"	H5L	59	8-3/8"	830A	52	10-3/4"	C-8 Pro-jector			Old Type Dial		
AB178	18	10-21/32"	HI30	59	8-3/8"	831	52	10-3/4"	R-8 Pro-jector	85	16"	65	6	7-19/32"
AB182	18	10-21/32"	HI37	59	8-3/8"	831A	52	10-3/4"	KINGSTON			66	6	7-19/32"
AB183	26	10-1/4"	J106	57	7-9/32"	GAROD—Manual			17447	47	14-11/16"	76	6	7-19/32"
AB184	18	10-21/32"	K106	61	7-3/32"	Tuning Models			17514	4	8-9/32"	85	6	7-19/32"
AC130	59	8-3/8"	K121	61	7-3/32"	309	86	15-5/8"	17628	2	7"	86	6	7-19/32"
AC149	59	8-3/8"	K123	61	7-3/32"	903	86	15-5/8"	17676	32	11-1/4"	650	6	7-19/32"
AC168	59	8-3/8"	LAC4	3	7-23/32"	930	52	10-3/4"	KNIGHT			750	6	7-19/32"
AC202	59	8-3/8"	LAC5	3	7-23/32"	930A	52	10-3/4"	11A	68	17-5/8"	850	12	8-25/32"
AE163	14	8-5/8"	LI17	3	7-23/32"	1203	86	15-5/8"	11S	81	17-3/4"	1050	12	8-25/32"
AF171	56	7-15/32"	LI17LW	3	7-23/32"	1204	86	15-5/8"	16R	81	17-3/4"	1056	73	21-1/4"
AF173	56	7-15/32"	LI22	3	7-23/32"	1240	20	10-7/8"	16S	68	17-5/8"	1058	73	21-1/4"
AF176	56	7-15/32"	LI22LW	3	7-23/32"	1240A	20	10-7/8"	A9788	44	12-3/4"	1356	73	21-1/4"
AF179	56	7-15/32"	LI33	3	7-23/32"	1603	86	15-5/8"	A9789	44	12-3/4"	1656	73	21-1/4"
AF180	56	7-15/32"	LI33LW	3	7-23/32"	1604	86	15-5/8"	A9830	26	10-1/4"	7182	56	7-15/32"
AF185	56	7-15/32"	LI35	3	7-23/32"	1650	20	10-7/8"	A9831	26	10-1/4"	MAJESTIC		
AG151	18	10-21/32"	LI35LW	3	7-23/32"	1650A	20	10-7/8"	A9852	44	12-3/4"	With Pulley Idler		
AH162	56	7-15/32"	LI41	3	7-23/32"	3012	86	15-5/8"	A9853	44	12-3/4"	1056	74	22-3/4"
AH165	56	7-15/32"	LI41LW	3	7-23/32"	3016	86	15-5/8"	A-9854	44	12-3/4"	1058	74	22-3/4"
AH166	56	7-15/32"	LI43	56	7-15/32"	4012	86	15-5/8"	B10510	50	16-5/8"	1356	74	22-3/4"
AH171	56	7-15/32"	LI50	3	7-23/32"	4016	86	15-5/8"	B10511	50	16-5/8"	1656	74	22-3/4"
AH173	56	7-15/32"	LI43W	3	7-23/32"	4110	20	10-7/8"	B10512	50	16-5/8"	17182	60	8-15/16"
AH174	56	7-15/32"	M134	18	10-21/32"	4560	21	10-15/16"	B10515	50	16-5/8"	17203	61	7-3/32"
AH176	56	7-15/32"	M136	18	10-21/32"	5140	20	10-7/8"	B10516	50	16-5/8"	NORTH ELECT.		
AH179	56	7-15/32"	M139	18	10-21/32"	5240	20	10-7/8"	B10517	50	16-5/8"	Type One 17		
AH180	56	7-15/32"	M140	18	10-21/32"	6250	20	10-7/8"	B10518	50	16-5/8"	Other Num- bers 52		
AH185	56	7-15/32"	M142	18	10-21/32"	6385	85	16"	B10520	68	17-5/8"	PHILCO		
AJ130	59	8-3/8"	M146	18	10-21/32"	GAROD—Automatic			B10521	68	17-5/8"	54-7194		
AJ137	59	8-3/8"	P117	11	8-3/32"	Tuning Models			B10522	68	17-5/8"	R.C.A.		
AJ149	59	8-3/8"	P135	11	8-3/32"	309	89	17"	B10523	68	17-5/8"	501	11	8-3/32"
AL130	59	8-3/8"	S7	62	8-7/16"	1203	89	17"	B10525	68	17-5/8"	502	11	8-3/32"
AL132	59	8-3/8"	S50	62	8-7/16"	1204	89	17"	B10526	68	17-5/8"	504	11	8-3/32"
AL149	59	8-3/8"	S134	62	8-7/16"	1603	89	17"	B10537	68	17-5/8"	502X	11	8-3/32"
AL164	59	8-3/8"	S138	62	8-7/16"	1604	89	17"	B10538	68	17-5/8"	85BK	33	11-11/32"
AL168	59	8-3/8"	S139	62	8-7/16"	3012	89	17"	B10539	68	17-5/8"	85BT	33	11-11/32"
AL202	5	7-3/4"	S140	62	8-7/16"	3016	89	17"	B10540	50	16-5/8"	85BT6	6	7-19/32"
ALLW130	56	7-15/32"	S147	62	8-7/16"	4012	89	17"	B10541	50	16-5/8"	85E	22	10-11/16"
ALLW132	56	7-15/32"	S151	62	8-7/16"	4016	89	17"	B10542	50	16-5/8"	85K	6	7-19/32"
ALLW149	56	7-15/32"	X146	18	10-21/32"	4110	20	10-7/8"	B10760	68	17-5/8"	85K1	23	10-7/32"
ALLW168	56	7-15/32"	X175	18	10-21/32"	5140	20	10-7/8"	B10761	68	17-5/8"	85T	12	8-25/32"
AM131	3	7-23/32"	X178	18	10-21/32"	6250	20	10-7/8"	B10762	68	17-5/8"	85T1	6	7-19/32"
AM153	3	7-23/32"	X183	18	10-21/32"	6385	85	16"	B10765	68	17-5/8"	85T2	13	8-13/16"
AM169	3	7-23/32"	Z117	3	7-23/32"	GENERAL ELECT.			B10766	68	17-5/8"	85T5	11	8-3/32"
AM187	3	7-23/32"	Z122	3	7-23/32"	F107	88	8"	B10767	68	17-5/8"	85T8	11	8-3/32"
AP165	56	7-15/32"	Z133	3	7-23/32"	F109	88	8"	B10768	68	17-5/8"	85T9	23	10-7/32"
AP166	56	7-15/32"	Z135	3	7-23/32"	F135	88	8"	B10769	68	17-5/8"	86BK	33	11-11/32"
AP171	56	7-15/32"	Z141	3	7-23/32"	GOODYEAR			B10770	68	17-5/8"	86BT	33	11-11/32"
AP173	56	7-15/32"	Z143	3	7-23/32"	112-125	26	10-1/4"	B10771	68	17-5/8"	86E	42	12-13/32"
AP174	56	7-15/32"	Z150	3	7-23/32"	112-176	55	7-7/8"	E10744	68	17-5/8"	86K	42	12-13/32"
AP176	56	7-15/32"	Z159	3	7-23/32"	112-194	12	8-25/32"	E10745	68	17-5/8"	86K2	11	8-3/32"
AP177	56	7-15/32"	Z160	3	7-23/32"	1070	19	10"	E10746	68	17-5/8"	86K7	42	12-13/32"
AP180	56	7-15/32"	FADA			1173	14	8-5/8"	E10747	68	17-5/8"	86T1	33	11-11/32"
AP185	56	7-15/32"	190	14	8-5/8"	1174	5	7-3/4"	E10748	68	17-5/8"	86T2	11	8-3/32"
AP165	56	7-15/32"	191	14	8-5/8"	GRUNOW			E10749	68	17-5/8"	86T3	11	8-3/32"
AR166	56	7-15/32"	192	14	8-5/8"	11G	39	12-5/8"	E10750	68	17-5/8"	86T4	33	11-11/32"
AR171	56	7-15/32"	193	14	8-5/8"	573	30	11-7/16"	E10850	68	17-5/8"	86T44	33	11-11/32"
AR173	56	7-15/32"	211	37	11-15/32"	631	30	11-7/16"	E10851	68	17-5/8"	86T6	11	8-3/32"
AR174	56	7-15/32"	212	41	12-1/8"	643	30	11-7/16"	E10880	68	17-5/8"	86X	6	7-19/32"
AR176	56	7-15/32"	216	41	12-1/8"	711	30	11-7/16"	E10881	68	17-5/8"	86X4	6	7-19/32"
AR177	56	7-15/32"	220	30	11-7/16"	723	30	11-7/16"	H9791	26	10-1/4"	87EY	33	11-11/32"
AR180	56	7-15/32"	270	10	8-11/16"	731	30	11-7/16"	H9792	26	10-1/4"	87K	42	12-13/32"
AR185	56	7-15/32"	271	10	8-11/16"	733	30	11-7/16"	H9795	26	10-1/4"	(Continued on next page)		
AS179	56	7-15/32"	290	37	11-15/32"	735	30	11-7/16"	LAFAYETTE					
AV193	3	7-23/32"	291	37	11-15/32"	823	32	11-1/4"	B15	15	9-1/2"			

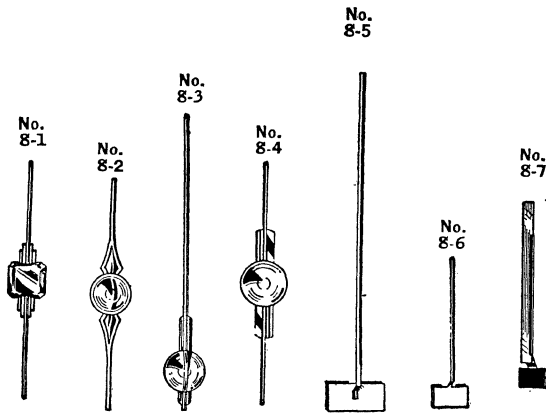


DIAL BELT MANUAL

Model No.	JFD Belt No.	Length When Open	Model No.	JFD Belt No.	Length When Open	Model No.	JFD Belt No.	Length When Open	Model No.	JFD Belt No.	Length When Open	Model No.	JFD Belt No.	Length When Open
R.C.A. (Cont.)			SPARTON (Cont.)			WELLS-GARDNER (Cont.)			ZENITH (Cont.)			ZENITH (Cont.)		
87K1	42	12-13/32"	518	46	13-5/16"	8X36	64	10-9/16"	7D223	84	9"	10S153	75	13-1/8"
87K2	42	12-13/32"	518X	46	13-5/16"	8X42	82	18-3/4"	7D229	84	9"	10S155	75	13-1/8"
87T	33	11-11/32"	527-2	46	13-5/16"	8X46	83	14-3/4"	7D239	84	9"	10S156	75	13-1/8"
87T1	11	8-3/32"	528-2	46	13-5/16"	8X47	81	17-3/4"	7D241	84	9"	10S157	75	13-1/8"
87T2	42	12-13/32"	537	46	13-5/16"	8X57	31	11-1/2"	7D243	84	9"	10S160	75	13-1/8"
87T7	88	8"	538	46	13-5/16"	8X62	70	16-21/32"	7D253	84	9"	10S443	80	9-3/8"
87X	33	11-11/32"	538X	46	13-5/16"	9C	63	9-9/16"	7J232	44	12-3/4"	10S452	80	9-3/8"
87Y	33	11-11/32"	547X	46	13-9/16"	14	35	11-9/32"	7J259	44	12-3/4"	10S464	80	9-3/8"
88K	42	12-13/32"	548X	46	13-5/16"	15	35	11-9/32"	7J323	36	11-3/4"	10S470	80	9-3/8"
88W	42	12-13/32"	557	47	14-11/16"	16	35	11-9/32"	7J368	36	11-3/4"	10S491	80	9-3/8"
88U	42	12-13/32"	558	75	13-1/8"	17B2	31	11-1/2"	7S28	64	10-9/16"	10S492	80	9-3/8"
88U2	42	12-13/32"	558B	46	13-5/16"	17L	82	18-3/4"	7S30	28	10-19/32"	10S589	80	9-3/8"
95FT	88	8"	558BX	46	13-5/16"	17P4	31	11-1/2"	7S53*	26	10-1/4"	10S590	80	9-3/8"
U101	6	7-19/32"	558C	46	13-5/16"	17T1	31	11-1/2"	7S53*	64	10-9/16"	10S669	17	9-11/32"
U102E	22	10-11/16"	558X	46	13-5/16"	27L	83	14-3/4"	7S204*	77	13-1/16"	10S690	17	9-11/32"
U103	6	7-19/32"	558CX	46	13-5/16"	57E	46	13-5/16"	7S204**	80	9-3/8"	11S474	80	9-3/8"
U105	42	12-13/32"	567	47	14-11/16"	57F	64	10-9/16"	7S232*	77	13-1/16"	12A1	38	12-3/16"
U106	42	12-13/32"	568	46	13-5/16"	OE	82	18-3/4"	7S232**	80	9-3/8"	12A2	38	12-3/16"
U107	42	12-13/32"	568X	46	13-5/16"	88A9	50	16-5/8"	7S240*	77	13-1/16"	12A3	38	12-3/16"
UR13	42	12-13/32"	577	46	13-5/16"	WESTINGHOUSE			7S240**	80	9-3/8"	12A4	38	12-3/16"
153	78	12-7/32"	578	46	13-5/16"	1029X	24	10-1/2"	7S242*	77	13-1/16"	12A6	17	9-11/32"
501	88	8"	578X	46	13-5/16"	1029Y	24	10-1/2"	7S242**	80	9-3/8"	12A57	40	12-1/2"
502	88	8"	587-2	46	13-5/16"	1230Y	24	10-1/2"	7S258*	77	13-1/16"	12A58	40	12-1/2"
502X	88	8"	588-2	46	13-5/16"	1230Y	24	10-1/2"	7S258**	80	9-3/8"	12B1	17	9-11/32"
504	88	8"	617	46	13-5/16"	1230X	24	10-1/2"	7S260*	77	13-1/16"	12B2	38	12-3/16"
ACR111	17	9-11/32"	628	46	13-5/16"	WILCOX-GRAY			7S260**	80	9-3/8"	12H650	17	9-11/32"
810K	42	12-13/32"	628X	46	13-5/16"	6S12	25	10-21/32"	7S261*	77	13-1/16"	12H670	17	9-11/32"
810K1	42	12-13/32"	637-6	46	13-5/16"	A21	25	10-21/32"	7S261**	80	9-3/8"	12H671	17	9-11/32"
810T	42	12-13/32"	638-6	46	13-5/16"	ZENITH			7S363	80	9-3/8"	12H678	17	9-11/32"
810T4	42	12-13/32"	667	46	13-5/16"	S7134	80	9-3/8"	8A01	80	9-3/8"	12H679	17	9-11/32"
812X	43	12-1/16"	668	46	13-5/16"	5F166	80	9-3/8"	8A02	80	9-3/8"	12H689	38	12-3/16"
RC278A	11	8-3/32"	668X	46	13-5/16"	5F233	84	9"	8A03	80	9-3/8"	12H695	38	12-3/16"
RC289A	33	11-11/32"	678	46	13-5/16"	5F251	84	9"	8B01	17	9-11/32"	12H696	38	12-3/16"
RC290A	42	12-13/32"	678A	46	13-5/16"	5S29	2	7"	8S30	46	13-5/16"	12L57	40	12-1/2"
RC294	6	7-19/32"	678X	46	13-5/16"	5S29A	2	7"	8S129	75	13-1/8"	12L58	40	12-1/2"
RC294B	12	8-25/32"	687-6	46	13-5/16"	5S56	2	7"	8S451	80	9-3/8"	12S205**	38	12-3/16"
RC314	22	10-11/16"	688-6	46	13-5/16"	5S56A	1	6-13/16"	8S154	75	13-3/8"	12S205***	80	9-3/8"
RC314C	13	8-13/16"	727-X	34	11-11/16"	5S119	80	9-3/8"	8S443	80	9-3/8"	12S205**	77	13-1/16"
RC315B	88	8"	727-XD	34	11-11/16"	5S126	80	9-3/8"	8S463	80	9-3/8"	12S232**	38	12-3/16"
RC315C	88	8"	728X	34	11-11/16"	5S127	80	9-3/8"	8S548	80	9-3/8"	12S232***	80	9-3/8"
RC319B	78	12-7/32"	748X	46	13-5/16"	5S150	80	9-3/8"	8S563	80	9-3/8"	12S232*	77	13-1/16"
RC325	23	10-7/32"	768	34	11-11/16"	5S151	80	9-3/8"	8S586	80	9-3/8"	12S245**	38	12-3/16"
325C	88	8"	778	34	11-11/16"	5S161	80	9-3/8"	8S587	80	9-3/8"	12S245***	80	9-3/8"
RC325C	11	8-3/32"	827X	34	11-11/16"	5S233	84	9"	8S588	80	9-3/8"	12S245*	77	13-1/16"
RC325D	11	8-3/32"	827XD	34	11-11/16"	5S161	80	9-3/8"	8S647	17	9-11/32"	12S265**	38	12-3/16"
RC326	48	15-1/32"	867	34	11-11/16"	5S233	84	9"	8S661	17	9-11/32"	12S265***	80	9-3/8"
RC327	50	16-5/8"	877X	34	11-11/16"	5S251	84	9"	9S30	64	10-9/16"	12S265*	77	13-1/16"
RC328	43	12-1/16"	928X	34	11-11/16"	5X230	84	9"	9S54	64	10-9/16"	12S266**	38	12-3/16"
RC366	88	8"	968	34	11-11/16"	5X248	84	9"	9S55	64	10-9/16"	12S266***	80	9-3/8"
31527	15	9-1/2"	987	34	11-11/16"	5X274	84	9"	9S203***	80	9-3/8"	12S266*	77	13-1/16"
30461	22	10-11/16"	997X	34	11-11/16"	6B107	46	13-5/16"	9S203**	38	12-3/16"	12S267**	80	9-3/8"
RADIO PROD.			1068	34	11-11/16"	6B129	46	13-5/16"	9S203*	77	13-1/16"	12S267*	77	13-1/16"
10305*CD	78	12-7/32"	1068X	71	11-3/8"	6B164	46	13-5/16"	9S204***	80	9-1/4"	12S267**	77	13-1/16"
11117*CD	39	12-5/8"	1078	34	11-11/16"	6J230	13	8-13/16"	9S204**	38	12-3/16"	12S268**	80	9-3/8"
13755*CD	81	17-3/4"	1078X	71	11-3/8"	6J257	13	8-13/16"	9S222*	77	13-1/16"	12S268*	77	13-1/16"
13762*CD	74	22-3/4"	1084	52	10-3/4"	6J436	80	9-3/8"	9S222**	38	12-3/16"	12S345	36	11-3/4"
SCOTT			1167	34	11-11/16"	6J463	80	9-3/8"	9S222***	17	9-11/32"	12S370	36	11-3/4"
TYPE 1	90	19-3/4"	1268	34	11-11/16"	6S27	16	9-5/8"	9S232*	77	13-1/16"	12S371	36	11-3/4"
TYPE 2	24	10-1/2"	1288P	34	11-11/16"	6S27A	16	9-5/8"	9S232**	80	9-3/8"	12S445	38	12-3/16"
SILVERTONE			1288LXP	34	11-11/16"	6S29	15	9-1/2"	9S232***	38	12-3/16"	12S453	38	12-3/16"
(Sears, Roebuck)			1567	34	11-11/16"	6S52	16	9-5/8"	9S242**	80	9-3/8"	12S471	38	12-3/16"
1930	14	8-5/8"	1568	34	11-11/16"	6S52A	16	9-5/8"	9S242**	77	13-1/16"	12S475	38	12-3/16"
1940	14	8-5/8"	1867	34	11-11/16"	6S128	75	13-1/8"	9S242**	38	12-3/16"	12S494	38	12-3/16"
1941	45	12-7/8"	STROM-CARLSON			6S137	75	13-1/8"	9S242***	80	9-3/8"	12S550	38	12-3/16"
1956	14	8-5/8"	230	48	15-1/32"	6S147	75	13-1/8"	9S244**	38	12-3/16"	12S568	38	12-3/16"
1970	14	8-5/8"	231	48	15-1/32"	6S152	75	13-1/8"	9S244**	77	13-1/16"	12S569	38	12-3/16"
1970A	14	8-5/8"	235	48	15-1/32"	6S157	75	13-1/8"	9S244*	80	9-3/8"	12S550Z	38	12-3/16"
1978	14	8-5/8"	240	48	15-1/32"	6S203	84	9"	9S262***	80	9-3/8"	12S568E	38	12-3/16"
1981	45	12-7/8"	245	48	15-1/32"	6S222	84	9"	9S262**	38	12-3/16"	12S569Z	38	12-3/16"
1981C	45	12-7/8"	TRUETONE			6S223	84	9"	9S262*	77	13-1/16"	12S595	38	12-3/16"
7170	45	12-7/8"	D692	29	11"	6S229	84	9"	9S263***	80	9-3/8"	12S595Z	38	12-3/16"
7170A	45	12-7/8"	D692LATE	34	11-11/16"	6S238	84	9"	9S263**	38	12-3/16"	12U158	48	15-1/32"
7221	76	9-1/8"	D694	29	11"	6S239	84	9"	9S263*	77	13-1/16"	14B1	38	12-3/16"
7340	45	12-7/8"	ULTRAMAR			6S241	84	9"	9S264***	80	9-3/8"	12U159	48	15-1/32"
12645	80	9-3/8"	66A	71	11-3/8"	6S249	38	12-3/16"	9S264**					



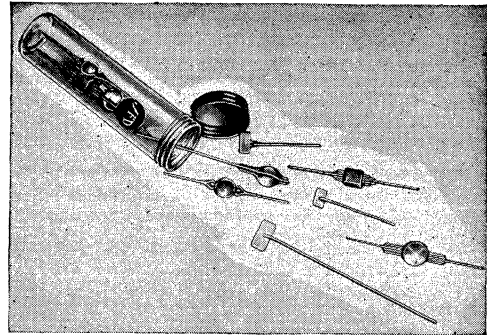
DIAL POINTERS



JFD DIAL POINTERS

- Cat. No. 8-1**
3 $\frac{1}{8}$ " overall length from tip to tip. Polished bronze, clear lacquered dial pointer. $\frac{1}{4}$ " bushing, can be snipped off to any desired length. Decorative modernistic square.....List Price \$0.35
- Cat. No. 8-2**
3 $\frac{1}{8}$ " overall length from tip to tip. Polished bronze, clear lacquered dial pointer. $\frac{1}{4}$ " bushing, can be snipped off to any desired length. Modernistic curved motif.....List \$0.35
- Cat. No. 8-3**
Single arm. Measures 3 $\frac{1}{2}$ " from center to end. Polished bronze, clear lacquered dial pointer. $\frac{1}{8}$ " bushing. Can be snipped off to any desired length. Modernistic design.....List \$0.35
- Cat. No. 8-4**
3 $\frac{1}{4}$ " overall length tip to tip. Polished bronze, clear lacquered dial pointer. $\frac{1}{8}$ " bushing. Can be snipped off to any desired length. Modernistic design.....List \$0.35
- Cat. No. 8-5**
Slide scale dial pointers. 4 $\frac{1}{2}$ " overall length. White enamel finish. Can be snipped off to any length desired.....List \$0.25
- Cat. No. 8-6**
Slide scale dial pointer, 2 $\frac{3}{8}$ " overall length. White enamel finish. Can be snipped off to any desired length. $\frac{1}{2}$ " x $\frac{1}{4}$ " slide shank. List \$0.25
- Cat. No. 8-7**
Slide scale dial pointer. Red plastic indicator. 2 $\frac{1}{2}$ " overall length. Can be snipped off to any length. $\frac{1}{2}$ " x $\frac{1}{4}$ " slide shank. List \$0.25

JFD DIAL POINTER ASSORTMENT



Cat. No. 8-10
Popular servicemen's assortment of 10 assorted dial pointers containing all the numbers at left. Comes in attractive plastic container which keeps pointers in perfect condition.....List Price \$2.90

JFD SERVICEMEN'S COMBINATION KIT

An assortment of all these little things that the Serviceman will find so convenient to have with him on the job.



- Kit No. 51-1.....List \$2.00**
- 15 Dial Drive Tension Springs
 - 25 Knob Springs
 - 10 Set Screws
 - 5 Idler Pulleys
 - 10 Dial Drive Rubbers
- Kit No. 51-2.....List \$4.00**
- 35 Dial Drive Tension Springs
 - 25 Knob Springs
 - 25 Set Screws
 - 25 Idler Pulleys
 - 15 Dial Drive Rubbers

JFD RADIO DIAL BELT MANUAL (Continued)

Model No.	JFD Belt No.	Length When Open	Model No.	JFD Belt No.	Length When Open	Model No.	JFD Belt No.	Length When Open	Model No.	JFD Belt No.	Length When Open	Model No.	JFD Belt No.	Length When Open
ZENITH (Cont.)			ZENITH (Cont.)			ZENITH (Cont.)			ZENITH (Cont.)			ZENITH (Cont.)		
15U246*	77	13-1/16"	885	53	8-7/8"	1103	84	9"	1503***	80	9-3/8"	5679	80	9-3/8"
15U269**	38	12-3/16"	908	2	7"	1103	80	9-3/8"	1601C	54	12-1/4"	5679	84	9"
15U269***	80	9-3/8"	S908	2	7"	1105	53	8-7/8"	1601P	54	12-1/4"	5704	64	10-9/16"
15U269*	77	13-1/16"	909	2	7"	1117	2	7"	22B1	38	12-3/16"	5704A	28	10-19/32"
15U270**	38	12-3/16"	S909	2	7"	1167	2	7"	2501	49	15-11/32"	5707	80	9-3/8"
15U270***	80	9-3/8"	935	53	8-7/8"	S1167	2	7"	2501C	49	15-11/32"	5709	80	9-3/8"
15U270*	77	13-1/16"	945	2	7"	1201	53	8-7/8"	2501P	49	15-11/32"	5709	77	13-1/16"
15U271**	38	12-3/16"	950	2	7"	1201	10	8-11/16"	5508	2	7"	5710	84	9"
15U271***	80	9-3/8"	960	1	6-13/16"	1201A	53	8-7/8"	5513	2	7"	5711	44	12-3/4"
15U271*	77	13-1/16"	961	2	7"	1201A	10	8-11/16"	5513A	2	7"	5715	36	11-3/4"
15U272**	38	12-3/16"	S961	2	7"	1202	40	12-1/2"	5516	80	9-3/8"	5801	75	13-1/8"
15U272***	80	9-3/8"	970	64	10-9/16"	1202A	40	12-1/2"	5518	80	9-3/8"	5808	80	9-3/8"
15U272*	77	13-1/16"	975	64	10-9/16"	1203	48	15-1/32"	5522	84	9"	5902	64	10-9/16"
15U273**	38	12-3/16"	978	53	8-7/8"	1204*	37	13-1/16"	5523	84	9"	5903	64	10-9/16"
15U273***	80	9-3/8"	980	53	8-7/8"	1204*	38	12-3/16"	5614	2	7"	5903A	28	10-19/32"
15U273*	77	13-1/16"	983	53	8-7/8"	1204***	17	9-11/32"	5618	2	7"	5905*	77	13-1/16"
16 Tube			985	53	8-7/8"	1206	38	12-3/16"	5619	16	9-5/8"	5905**	38	12-3/16"
Strato	54	12-1/4"	990	53	8-7/8"	1207	38	12-3/16"	5619A	15	9-1/2"	5905***	17	9-11/32"
16A61	54	12-1/4"	1000Z	49	15-11/32"	1207	36	11-3/4"	5621	80	9-3/8"	5906*	38	12-3/16"
16A63	54	12-1/4"	25 Tube			1501*	77	13-1/16"	5627	16	9-5/8"	5906***	17	9-11/32"
ZENITH listed according to chassis numbers.			Strato	49	15-11/32"	1501**	38	12-3/16"	5634	75	13-1/8"	5907	36	11-3/4"
601	1	6-13/16"	1001	53	8-7/8"	1501***	17	9-11/32"	5635	46	13-5/16"	S9061	2	7"
835	53	8-7/8"	1004	75	13-1/8"	1502*	38	12-3/16"	5638	84	9"	ZENEPHYR		
880	53	8-7/8"	1005	80	9-3/8"	1502***	17	9-11/32"	5642	13	8-13/16"	8J	59	8-3/8"
881	53	8-7/8"	1005	84	9"	1502A*	38	12-3/16"	5644	79	11-3/16"	8JM	59	8-3/8"
			1029Y	24	10-1/2"	1502A***	17	9-11/32"	5648	13	8-13/16"			
			1101	53	8-7/8"	1503*	38	12-3/16"	5649	79	11-3/16"			
*Dial **Condenser ***Motor			*Dial **Condenser ***Motor			*Dial **Condenser ***Motor			*Dial **Condenser ***Motor			*Dial **Condenser ***Motor		



DIAL BELT MANUAL

INTERCHANGE CHART JFD Belts to Other Makes

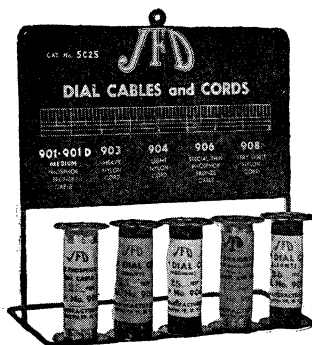
Use JFD No.	In Place of Other Belt Nos.	Use JFD No.	In Place of Other Belt Nos.	Use JFD No.	In Place of Other Belt Nos.
1	101	34	173	66	123
2	161	35	135	67	139
3	103-155	36	194	68	169
4	104-159	37	137	69	138
5	105	38	138	70	170
6	177	39	144	71	171
7	174	40	178	72	113
8	108	41	143	73	175
9	109	42	140	74	176-191
10	109	43	141	75	168
11	111	44	145	76	167
12	153	45	145	77	168
13	108	46	146	78	154
14	110	47	147-186	79	133
15	116	48	151	80	115
16	119	49	149-187	81	179-190
17	117	50	184	82	181-189
18	118	51	184	83	148
19	123	52	152	84	167
20	121-129	53	112	85	150-182
21	120	54	142	86	183
22	152	55	107	87	170
23	126	56	106-156	88	174
24	124-164	57	157	89	165-185
25	122	58	158	90	166-188
26	126	59	172	91	193
27	127	60	160	92	wide open
28	128	61	102	92	192
29	180	62	114-162	93	wide open
30	134	63	163	94	185
31	136	64	125	95	147
32	130-132	65	131W	95	136
33	131				

REVERSE INTERCHANGE CHART Other Makes to JFD Belts

In Place of Other Belt Nos.	Use JFD No.	In Place of Other Belt Nos.	Use JFD No.	In Place of Other Belt Nos.	Use JFD No.
101	1	133	79	165	89
102	61	134	30	166	90
103	3	135	35	167	84
104	4	136	95	168	77
105	5	137	37	169	68
106	56	138	38	170	87
107	55	139	67	171	71
108	13	140	42	172	59
109	10	141	43	173	34
110	14	142	54	174	7
111	11	143	41	175	73
112	53	144	39	176	74
113	72	145	44	177	6
114	62	146	46	178	40
115	80	147	94	179	81
116	15	148	83	180	29
117	17	149	49	181	82
118	18	150	85	182	85
119	16	151	48	183	86
120	21	152	22	184	50
121	20	153	12	185	93
122	25	154	78	186	47
123	66	155	3	187	49
124	24	156	56	188	90
125	64	157	57	189	82
126	26	158	58	190	81
127	27	159	4	191	74
128	28	160	60	192	92
129	20	161	2	193	wide open
130	32	162	62	194	wide open
131	33	163	63		
131W	65	164	24		
132	32				

JFD SERVICEMAN'S HANDY RACKS OF DIAL DRIVE NYLON CORD AND CABLE

Here are two convenient JFD radio dial cable racks with an assortment of cable cords to do most any job. Hang it on the wall or keep it on the bench within easy reach. The spools revolve as you pull the cable to cut off the length required. You pay only for the spools—the METAL RACK IS FREE.



**YOU PAY ONLY
FOR THE CABLE**

THE RACK IS FREE!

**Every Spool is a Metal Spool—
Housed in a Weather-Resistant,
Moisture-Proof Plastic
Container!**



No. 5C25	No. 5C50	No. 5C100
5 spools 25 ft. ea.	5 spools 50 ft. ea.	5 spools 100 ft. ea.
List	List	List
1-901D .....\$1.26	1-901D .....\$2.46	1-901D .....\$4.38
1-903 1.42	1-903 2.74	1-903 4.60
1-904 1.26	1-904 2.46	1-904 4.38
1-906 ..... .93	1-906 1.81	1-906 3.45
1-908 ..... .82	1-908 1.53	1-908 2.85
TOTAL .....\$5.69	TOTAL .....\$11.00	TOTAL .....\$19.66
PAY ONLY FOR CABLE — RACK IS FREE!		

No. 5R100 SERVICEMAN'S BENCH RACK List \$19.66

(Metal Rack Stand FREE)

CONSISTS OF 5 100 FOOT SPOOLS
ONE EACH OF THE FOLLOWING

1-No. 901D—Fine Braided Phosphor Bronze.....	\$4.38
1-No. 903—Heavy Nylon Cord	4.60
1-No. 904—Light Nylon Cord	4.38
1-No. 906—8 Strand Phosphor Bronze	3.45
1-No. 908—Thin Nylon Cord	2.85

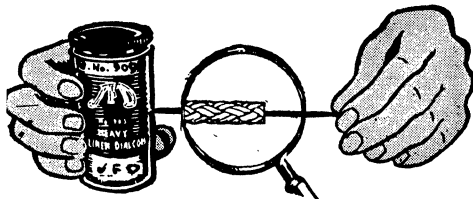
TOTAL \$19.66



DIAL DRIVE NYLON CORD and CABLE

HANDY SPOOL FOR DIAL CABLE AND CORDS

The finest line of nylon dial cables and cords on the market, put up and packaged in a truly modern manner. All length spools come on metal spools, housed in transparent plastic containers which permit simplicity of



handling, renders cable weather-proof, prevents cable from rotting, becoming brittle, or losing its original strength or color.

Empty Plastic Container Makes A Handy All-purpose Kit for Small Parts, Washers, etc.

JFD 42 STRAND PHOSPHOR BRONZE CABLE



42 Strand Phosphor Bronze Cable with a linen thread center. This is the best flexible bronze cable obtainable. Wound on metal spool.

No.	Spools	List
901—25	25 ft.	\$1.26
901—50	50 ft.	2.46
901—100	100 ft.	4.38
901—500	500 ft.	17.52
901—1000	1000 ft.	35.04

JFD FINE BRAIDED PHOSPHOR BRONZE CABLE



Very fine braided Phosphor Bronze Cable with a fiberglass center. This is a very popular cable. Wound on metal spool.

No.	Spools	List
901D—25	25 ft.	\$1.26
901D—50	50 ft.	2.46
901D—100	100 ft.	4.38
901D—500	500 ft.	17.52
901D—1000	1000 ft.	35.04

JFD 18 STRAND PHOSPHOR BRONZE CABLE



18 Strand knitted Phosphor Bronze cable, will give good service.

No.	Spools	List
902—25	25 ft.	\$0.93
902—50	50 ft.	1.81
902—100	100 ft.	3.45
902—500	500 ft.	14.78
902—1000	1000 ft.	27.38

JFD HEAVY NYLON CORD



This Heavy Nylon Cord will adequately replace old cables used in Silver-Marshall, Philco, Brunswick, and many other sets where heavy linen cable was formerly used. This heavy cord is also used in some of the modern receivers. Has great pulling strength. Wound on metal spool.

No.	Spool	List
903—25	25 ft.	\$1.42
903—50	50 ft.	2.74
903—100	100 ft.	4.60
903—500	500 ft.	21.90
903—1000	1000 ft.	38.33

JFD LIGHT NYLON CORD



This light Nylon Cord has ample reserve strength and is now popularly used in original radio sets. Will adequately replace the cords of older type receivers. Wound on metal spool.

No.	Spool	List
904—25	25 ft.	\$1.26
904—50	50 ft.	2.46
904—100	100 ft.	4.38
904—500	500 ft.	16.43
904—1000	1000 ft.	27.38

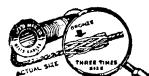
JFD SPECIAL NYLON HEAVY CORD



This special heavy Nylon Cord was designed to replace many cords in the older model receivers such as Kolster and Grebe sets, etc. Readily adaptable for many other applications where great strength is required.

No.	Spools	List
905—25	25 ft.	\$2.19
905—50	50 ft.	3.83
905—100	100 ft.	7.39
905—500	500 ft.	37.23

JFD 8 STRAND PHOSPHOR BRONZE CABLE



Special Thin Phosphor Bronze Knitted Cable, 8 strands. Strong, flexible and especially made to replace cables on RCA and G.E. 1936 to 1938 receivers. Wound on metal spool.

No.	Spool	List
906—25	25 ft.	\$0.93
906—50	50 ft.	1.81
906—100	100 ft.	3.45
906—500	500 ft.	14.78
906—1000	1000 ft.	27.38

JFD EXTRA HEAVY NYLON CORD



Extra heavy Nylon Cord .072 gauge. For specific use on Philco receivers but can also be used for many other adaptations.

No.	Spool	List
907—25	25 ft.	\$1.37
907—50	50 ft.	2.74
907—100	100 ft.	4.93
907—500	500 ft.	21.90
907—1000	1000 ft.	38.33

JFD THIN NYLON CORD



Extra Special Thin Nylon Cord. Made of the finest braided black nylon. Wound on metal spool.

No.	Spool	List
908—25	25 ft.	\$0.82
908—50	50 ft.	1.53
908—100	100 ft.	2.85
908—500	500 ft.	10.95
908—1000	1000 ft.	19.71

JFD SPECIAL THIN NYLON CORD



Extra Special Thin Nylon Cord. Made of white braided linen. Very strong. Suited for replacements where very thin cord is required.

No.	Spools	List
908B—25	25 ft.	\$0.82
908B—50	50 ft.	1.53
908B—100	100 ft.	2.85
908B—500	500 ft.	10.95
908B—1000	1000 ft.	19.71

JFD FLAX BRAIDED HEMP



Flax Braided Hemp. Pre-stretched, diameter .062 and used in late models of Emerson, G.E., Sparton, Crosley, etc. Tensile strength more than sufficient for these and other receivers.

No.	Spools	List
909—25	25 ft.	\$1.26
909—50	50 ft.	2.46
909—100	100 ft.	4.38
909—500	500 ft.	16.43
909—1000	1000 ft.	27.38

JFD DIAL DRIVE SPRINGS



	List per 100
35-1—Spring $\frac{1}{8}$ "x $\frac{1}{2}$ "	\$4.22
35-2—Spring $\frac{1}{8}$ "x1"	4.22
35-3—Spring $\frac{1}{8}$ "x1"	4.22
35-4—Spring $\frac{1}{8}$ "x1 $\frac{1}{2}$ "	4.22
35-5—Spring $\frac{1}{4}$ "x1 $\frac{1}{2}$ "	4.22
35-6—Spring $\frac{1}{4}$ "x2"	4.54
35-7—Kit of 25 assorted springs	1.10
35-8—Kit of 100 assorted springs	3.83



IDLER PULLEYS

Two sizes replace original idler or drive pulleys.

No. 2080	List \$0.11
No. 2081	.11



JFD NON-SLIP COMPOUND

Prevents slipping of belts, cords or cables used on radio dials, refrigerators, etc. In powder form, easy to use. Insures a perfect non-slipping job.

No.	List
ST480—2 oz.	\$0.35

ASK FOR THE DIAL CORD IN THE PLASTIC CONTAINER!



POPULAR TEST LEAD LINE

ALL JFD TEST LEADS OFFER THESE FEATURES:

1. All fitting ends are solid brass (nickel-plated).
2. All wires are flexible, kink-free, rubber-covered for use on high voltages.
3. Prod handles are made for long, heavy duty—5" long.
4. Individually packed in dust-proof cellophane container.

STANDARD TEST LEADS



Wire is 50" long.

- | No. | List |
|--|--------|
| 3-1—Phone tips | \$1.25 |
| 3-2—Spade lugs | 1.25 |
| 3-3—Alligator Clips | 1.35 |
| 5" Heavy duty fibre handle, Phono needle point, removable, permits penetration through insulation of wire. | |



Wire is 50" long.

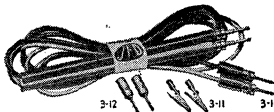
- | No. | List |
|--|--------|
| 3-4—Phone tips | \$1.25 |
| 3-5—Spade lugs | 1.25 |
| 3-6—Alligator Clips | 1.35 |
| 5" heavy duty fibre handle. Pointed senior solderless phone tips which permit easy changing of test leads without soldering. | |

SPECIAL TEST LEADS



connection permits easy changing

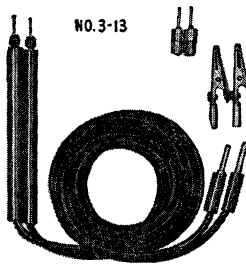
- | No. | List |
|--|--------|
| 3-7—Phone tips | \$1.75 |
| 3-8—Alligator Clips | 1.75 |
| 3-9—Banana Plugs | 1.75 |
| Sturdily made with 5" long high luster cast phenolic handles. Phono needle point. Wire is 54" long. Solderless wire of test leads without soldering. | |



less wire connection permits easy soldering.

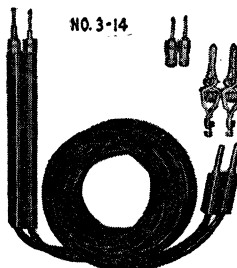
- | No. | List |
|---|--------|
| 3-10—Phone tips | \$1.75 |
| 3-11—Alligator Clips | 1.75 |
| 3-12—Banana Plugs | 1.75 |
| Sturdily made with 5" long, high luster, cast phenolic handles; Senior solderless phone tips. Wire is 54" long. Solder-changing of test leads without | |

JFD ALL-PURPOSE TEST LEADS



- No. 3-13 High luster, heavy duty, cast phenolic handles, 5" long, red and black; special, flexible, kink-free, all-rubber covered 42-strand wire, 54" long, insulated for use on high voltages; sturdy, solid brass (nickel-plated) phono needle tips, designed for easy penetration through insulation of wire. Comes with insulated banana plugs on meter end. Also includes 1 pair Junior solderless phono tips and 1 pair alligator clips. Designed for easy interchange of parts.

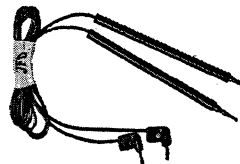
No. 3-13.....List \$2.50



- No. 3-14 High luster, heavy duty, cast phenolic handles, 5" long, red and black; special, flexible, kink-free, all-rubber covered 42-strand wire, 54" long, insulated for use on high voltages; solid brass (nickel-plated) senior solderless phone tips. Comes with insulated banana plugs on meter end. Also includes 1 pair Junior phone tips and 1 pair alligator clips. Designed for easy interchange of prod ends.

No. 3-14.....List \$2.50

NEW TYPE ANGLE TEST LEAD



- No. 3-15 New plug design eliminates danger of wire pulling out or breaking off—fits into curvature at an angle. Red and black catalin insulation; all rubber-covered kinkless wire, 48" long. Handles are 5" long cast phenolic. All connections are well soldered affording low resistance. Comes with nut and bolt for ease of assembly.

No. 3-15.....List \$1.75

JFD TEST LEAD ACCESSORIES



- Durable Fibre prod, 5" long, nickel-plated brass, solderless tips permit easy changing of leads without soldering. Red or black.

No. 3-31—Senior Solderless Phone tipsList, Ea. \$0.35

3-32—Phone needle tips35



- Durable, high luster, cast phenolic prods, nickel-plated brass solderless tips permit easy changing of leads without soldering. 5" long. Red or black.

No. 3-33—Senior Solderless Phone tipsList, Ea. \$0.50

3-34—Phono needle tips50



- No. 3-35 Insulated solid brass (nickel-plated) Junior solderless phone tips, red or black, durable cast phenolic handles, over-all length 2".

List Price, ea.....\$0.22



- No. 3-36 Insulated solid brass (nickel-plated) banana plug, solderless, durable, cast phenolic handles, red or black, over-all length 2".

List Price, Ea.\$0.25



- No. 3-37 Nickel-plated brass Alligator clips, tight, even-matched jaws; durable, high luster, insulated handles, come in red or black.

List Price, Ea. \$0.25



- No. 3-38 Senior solderless phone tips, solid brass (nickel-plated). Made for easy insertion of wire.

List Price, Ea. \$0.10



- No. 3-39 Junior solderless phone tips, solid brass (nickel-plated). Made for easy insertion of wire.

List Price, Ea.....\$0.10



- No. 3-40 Phono needle chuck, solid brass (nickel-plated). Specially tooled for easy insertion of wire.

List Price, Ea.\$0.15



- No. 3-41 Phone tips, solid brass (nickel-plated). A perfect replacement on headsets, speakers, and extension cords.

List Price, Ea.\$0.02



- No. 3-42 Replacement lead, extra flexible, kink-free, all rubber-covered. 50" long, insulated for use on high voltages. Built for long wear. Red or black.

List Price\$0.17 per length



RADIO WIRE



AC-DC ANTENNA WIRE (Cotton Covered)

AC-DC antenna wire, stranded, woven cotton covered, flexible, brown.
2150—25 ft. hank (100 to carton)
2151—100 ft. hank
2153—1000 ft. spool

AC-DC ANTENNA WIRE (New Unkinkable Vinylite)

AC-DC antenna wire, stranded, new vinylite, flexible, durable, unkinkable.
2154—25 ft. hank
2155—1000 ft. spool

STRANDED HOOK-UP WIRE No. 18

Stranded hookup wire, 18 gauge, as above.
913-H

STRANDED HOOK-UP WIRE No. 22

Stranded hookup wire, 22 gauge, easy push-back, tinned, covered with special LAC-QUERED braid. Five colors: black, red, yellow, blue, green.
914-H

STRANDED HOOK-UP WIRE No. 16

Stranded hookup wire, 16 gauge, covered with durable cotton braid. Five colors.
915-H

STRANDED HOOK-UP WIRE No. 14

Stranded hookup wire, 14 gauge, as above.
916-H

SV No. 18 (Vacuum Cleaner Service Cord)

Two-conductor No. 18 SV cord, OD .180, for use with light electrical appliances such as vacuum cleaners and blowers. Stripped and tinned ready for use. U. L. Approved.

80-1	6' length
80-2	8' length
80-3	10' length
80-4	12' length
80-5	20' length

SJ No. 18 (Service Cord for washing machines and larger appliances)

Two-conductor, No. 18 SJ cord, 16-30, OD .300. Stripped and tinned ready for use.
U. L. Approved

80-11	6' length	80-14	12' length
80-12	8' length	80-15	20' length
80-13	10' length		

SJ No. 16 (Heavy duty service cord)

Two-conductor No. 16 SJ cord, 26-30, OD .325. Stripped and tinned ready for use.
U. L. Approved

80-21	6' length
80-22	8' length
80-23	10' length
80-24	12' length
80-25	20' length

S No. 18 (Heavy duty service cord)

Two-conductor, No. 18 S 16-30 heavy duty cord, OD .395. Stripped and tinned ready for use.

U. L. Approved

80-31	6' length
80-32	8' length
80-33	10' length
80-34	12' length
80-35	20' length

SOLID HOOK-UP WIRE No. 22

Solid hookup wire, 22 gauge, easy pushback, tinned, woven fabric covered. Five colors: black, red, yellow, blue, green.
920-C—1000 ft. spool
921-C—3000 ft. spool

STRANDED HOOK-UP WIRE No. 22

Stranded hookup wire, 22 gauge, easy push-back, tinned, covered with durable cotton braid. Five colors: black, red, yellow, blue, green.
930-C—1000 ft. spool
931-C—3000 ft. spool

STRANDED HOOK-UP WIRE No. 20

Stranded hookup wire, 20 gauge, cotton covered.
935-C—1000 ft. spool
936-C—3000 ft. spool

7/24 BARE COPPER AERIAL WIRE

937—50 ft. coil (standard carton 100 coils)
938—100 ft. coil (standard carton 50 coils)
939—1000 ft. metal spool

SHIELDED PHONOGRAPH WIRE

Single conductor shielded wire, 22 gauge, very flexible, for phono pickups, and phono switches.

940A—100 ft. coil
941A—1000 ft. spool

TRANSMISSION WIRE

Two conductor transmission wire, 20 gauge, cotton braided, weatherproof impregnated.
945-C

LAPEL MICROPHONE CABLE

(.180 diam. Thin Gauge, Single Cond.)

Single conductor shielded microphone cable, 20 gauge. Smaller OD than standard type
960-C

MICROPHONE CABLE (Single Cond.)

Single conductor shielded microphone cable OD .250, 20 gauge.
961-C

MICROPHONE CABLE (Two Cond.)

Two conductor shielded microphone 20 gauge cable.
962-C

MICROPHONE CABLE (Three Cond.)

Three conductor shielded microphone 20 gauge cable.
963-C

SV (Vacuum Cleaner Service Cord) No. 18/2 .180 OD Thin Gauge

Two conductor No. 18 gauge SV cord, OD .180, for use with light electrical appliances such as vacuum cleaners and blowers.
974-C

U. L. Approved

SJ (Service Cord) No. 16/2

Two conductor, No. 16 gauge SJ cord, 26-30, OD .325.
976-C

U. L. Approved

SJ (Service Cord) No. 18/2

Two conductor, No. 18 gauge SJ cord, 16-30, OD .300.
978-C

U. L. Approved

S CORD (Heavy Duty Service Cord) No. 14/2

Two conductor, No. 14 gauge S heavy duty cord, 41-30, OD .540.
984-C

U. L. Approved

S CORD (Heavy Duty Service Cord) No. 16/2

Two conductor, No. 16 gauge S heavy duty cord, 26-30, OD .410.
986-C

U. L. Approved

S CORD (Heavy Duty Service Cord) No. 18/2

Two conductor, No. 18 gauge S heavy duty cord 16-30 OD .395.
988-C

U. L. Approved

SHIELDED LEAD-IN WIRE (Single Cond.)

Single conductor shielded wire, stranded, tinned, 22 gauge, durable cotton braid covered.
911-H

SHIELDED LEAD-IN WIRE (Two Cond.)

Two conductor shielded wire, stranded, tinned, 22 gauge, durable cotton braid covered.
912-H

TEST LEAD WIRE

Kinkless flexible soft rubber covered test lead wire, 18 gauge, red or black.

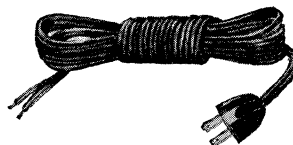
2170—25 ft. hank
2171—100 ft. hank
2172—500 ft. spool
2173—1000 ft. spool

JFD INTER-COMMUNICATION CABLE, BRAIDED TYPE

GENERAL PURPOSE: Designed for interior use for connecting intercommunication systems, etc.

CONSTRUCTION: Each conductor stranded copper wire, two rayon reverse serves paraffined, color coded.

No.	Description	No.	Description
992	2 conductor	996	6 conductor
993	3 conductor	997	7 conductor
994	4 conductor	998	8 conductor
995	5 conductor	999	10 conductor



Sturdy 2 conductor, 18 gauge, POSJ (Zip), 6 foot power supply cord, with moulded unbreakable rubber plug.

2199-Z U. L. Approved

Similar to 2199-Z above, but with bakelite male attachment plug.

2199-Y



Sturdy 2 conductor, 18 gauge, 6 foot power supply cord. Covered with durable cotton overall braid, with moulded unbreakable rubber plug. Pigtail leads stripped and tinned, ready to attach.

2199-H

THE NEW IMPROVED JFD REMOTE-O-CABLE REPLACER

The Most Efficient Auto Radio Tuning Cable- Servicing Machine in Use Today!

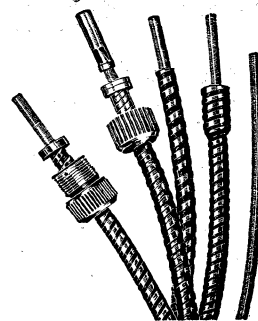
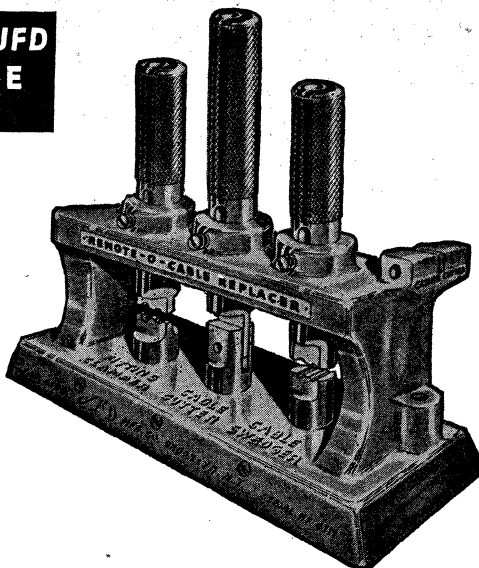
Completely redesigned to meet MOD-ERN Servicing requirements, the NEW JFD REMOTE-O-CABLE REPLACER is a vital necessity in the workshop of every auto-radio serviceman.

1. SWEDGES SHAFTING TO PRE-VENT UNRAVELLING.
2. CUTS SHAFTING TO EXACT LENGTH.
3. REPLACES OLD FITTINGS ON NEW SHAFTING.
4. CASING GROOVE MAKES CUT-TING EASY.

ANY JOB PROMPTLY DONE AND DELIVERED—The Remote-O-Cable Replacer + 50 feet of shafting and casing + an assortment of fittings and you are fully equipped.

USE OLD FITTINGS ON NEW SHAFTING—No need to wait for special lengths or odd fittings.

NO DELAY—Shafting of any length immediately available.



**SERVICEMEN'S
NET COST
\$67.52**

Size: Length, 10½". Width, 4¼". Height, 13". Weight, 29¼ lbs.

NO LOSS OF HEADS OR SHAFTING—Shafting of any make radio immediately changed to fit any dashboard head.

FRONT—REAR—ANYWHERE—Radio control in any part of the car.

EXACT LENGTH OF SHAFTING DOES IT—Maximum tuning efficiency.

AUTO RADIO CONTROL SHAFTING AND CASING

UNSWEDGED "LIVE" SHAFTING

Type CB
.130 gauge
\$0.16 per ft. List
Type CA
.150 gauge
\$0.21 per ft. List

NON-RAVELLING DEAD SHAFTING

Type CD
.130 gauge
\$0.18 per ft. List
Type CC
.150 gauge
\$0.24 per ft. List

CASING FOR ALL SHAFTINGS

Type HB
.130 gauge
\$0.16 per ft. List
Type HA
.150 gauge
\$0.21 per ft. List

AUTO RADIO CONTROL SHAFTING AND CASING CUT TO LENGTH

.130 CABLE AND CASING

	18"	24"	30"	36"	42"	48"
Shafting only CB .130 Gauge	\$0.45	\$0.54	\$0.63	\$0.72	\$0.81	\$0.90
Casing only HB for .130 Gauge	.45	.54	.63	.72	.81	.90
Shafting & Casing Complete CB HB .130	.90	1.08	1.26	1.44	1.62	1.80

.150 CABLE AND CASING

	18"	24"	30"	36"	42"	48"
Shafting only CA .150 gauge	\$0.53	\$0.64	\$0.76	\$0.87	\$0.99	\$1.10
Casing only HA for .150 gauge	.53	.64	.76	.87	.99	1.10
Shafting & Casing Complete CA HA .150	1.06	1.28	1.52	1.74	1.98	2.20

JFD EXACT DUPLICATE CABLES

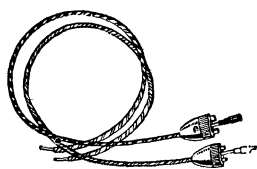
FOR ALL 1936-37-38 MOTOROLA SETS AND HEADS

No. 520—List Price per set of two cables\$4.14

FOR STANDARD HEADS

With Fittings to fit Star, Crowe, Stewart Universal Remote Control Heads.

No. 521—List Price per set of two cables\$4.82



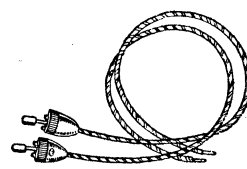
FOR ALL 1939-40-41 MOTOROLA SETS AND HEADS

No. 522—List Price per set of two cables\$4.14

FOR STANDARD HEADS

With Fittings to fit Star, Crowe, Stewart Universal Remote Control Heads.

No. 523—List Price per set of two cables\$4.82



JFD EXACT DUPLICATE CABLES FOR PHILCO, ARVIN AND DELCO

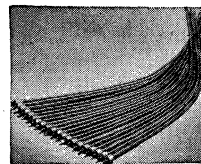
Complete set of two cables, with fittings, same as original.

No.	List
15 AR—For all Arvin Radios	\$3.02
16 PH—For all Philco 1937 Radios	3.02
17 DE—For all Delco Radios	3.02
18 PH—For Philco, single tuning control cable	1.51

SERVICEMEN'S STAN- DARD SHAFT AND CASING ASSEMBLIES

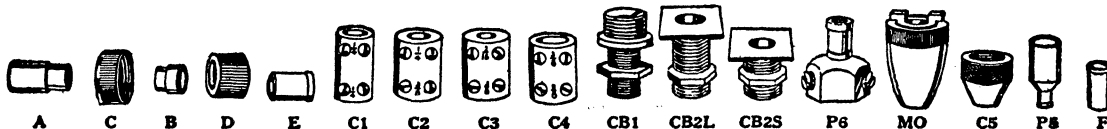
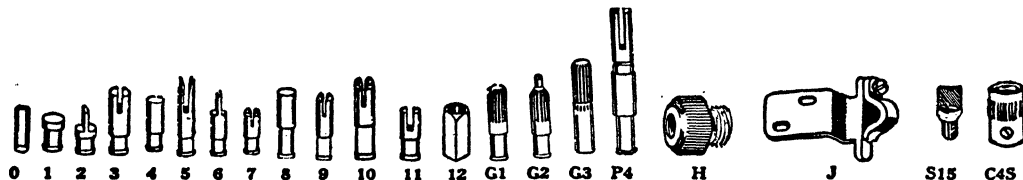
Contains 20 assemblies (10 pairs). Casings are 24" long—will fit nearly all installations. Come equipped with D casing nut and No. 2 spade shaft tip to fit Star, Crowe, Stewart Universal Remote Control Heads. The other end of each assembly is without fitting, thus permitting use of whatever fittings are needed to match the radio being serviced.

No. 20 PH Stock Packages (20 Assemblies). List.....\$18.00





Auto Radio Tuning Cable Fittings Gear & Couplers

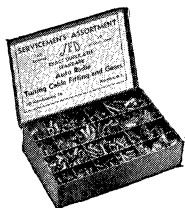


Nos. 0, 1, 7, B, E.....Lots of 20 @ \$0.10 ea. List
Nos. C, DLots of 20 @ .10 ea. List
Nos. 2, 4, 8, 11, F.....Lots of 20 @ .10 ea. List
Nos. 3, 5, ALots of 20 @ .13 ea. List

Nos. 6, 9, 10, 12, C1, C2, C3, C4, C5, J, S15
Lots of 10 @ \$0.20 ea. List
Nos. C4S, CB1, CB2L, CB2S, P5, P6.....Lots of 5 @ .33 ea. List
Nos. M0130, M0150, HLots of 10 @ .55 ea. List
Nos. G1, G2, G3, P4Lots of 5 @ .66 ea. List

SERVICEMEN'S ASSORTMENT

120 Assorted Pieces—
30 Different Types



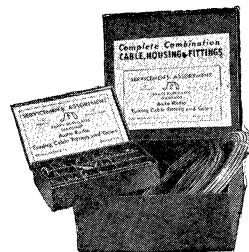
Contains 30 different types of fittings, gears and couplers (as above) used in Philco, Motorola, RCA, United Motors, Bosch, Crosley, Sparton, Atwater-Kent, Stewart-Warner, Arvin, Zenith, Emerson, and other auto radio sets. 120 pieces in all. Neatly packed in an attractive, durable, steel box which comes to you FREE of charge.

K120.....List Price \$23.30

SERVICEMEN'S COMPLETE COMBINATION KIT OF CABLE, HOUSING AND FITTINGS

30 Different Types of Fittings
120 Assorted Pieces

50 Feet of Cable - 50 Feet of Housing
Here is a single, compact kit that fills all servicemen's needs for cable, housing, and fittings. Contains 120 pieces of fittings, gears, and couplers—30 different types. Used in Philco, Motorola, RCA, United Motors, Bosch, Crosley, Sparton, Atwater-Kent, Stewart-Warner, Arvin, Zenith, Emerson, and other auto radio sets. Also contains 50 feet of cable and 50 feet of housing. All compactly packed in a FREE durable, steel box.

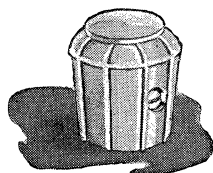


CK200.....List Price \$41.30

EVERY SERVICEMAN MUST OWN ONE!

AUTO RADIO MOLDED PLASTIC KNOBS

Come in black, dark gray, brown, light gray and pearl gray.



K54— $\frac{3}{16}$ " shaft, assortment of 12 knobs (Assorted colors) in a cellophane display envelope.... \$2.40
K60A— $\frac{3}{16}$ " shaft, assortment of 50 knobs (5 Assorted colors) in display box..... 10.00
K60PG— $\frac{3}{16}$ " shaft, 50 pearl gray knobs in display box 10.00
K60BL— $\frac{3}{16}$ " shaft, 50 black knobs in display box..... 10.00
K60DG— $\frac{3}{16}$ " shaft, 50 dark gray knobs in display box..... 10.00
K60BR— $\frac{3}{16}$ " shaft, 50 brown knobs in display box..... 10.00
K60LG— $\frac{3}{16}$ " shaft, 50 light gray knobs in display box..... 10.00
K55— $\frac{1}{4}$ " shaft, assortment of 12 knobs (assorted colors) in a cellophane display envelope 2.40

K70— $\frac{1}{4}$ " shaft, assortment of 50 knobs (5 assorted colors) in display box..... 10.00
K70PG— $\frac{1}{4}$ " shaft, 50 pearl gray knobs in display box 10.00
K70BL— $\frac{1}{4}$ " shaft, assortment of 50 black knobs in display box..... 10.00
K70DG— $\frac{1}{4}$ " shaft, assortment of 50 dark gray knobs in display box..... 10.00
K70BR— $\frac{1}{4}$ " shaft, assortment of 50 brown knobs in display box 10.00
K70LG— $\frac{1}{4}$ " shaft, assortment of 50 light gray knobs in display box 10.00

Servicemen's Assortment of 12 molded plastic knobs in cellophane bag (K54, K55)



AUTO RADIO CHROME-PLATED BRASS KNOBS

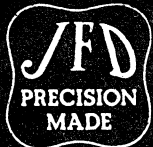
Durable good-looking replacement knobs.



K56— $\frac{3}{16}$ " shaft, Servicemen's Assortment of 12 knobs in a cellophane display envelopeList \$3.60
K80A— $\frac{3}{16}$ " shaft, assortment of 50 knobs in a display carton.
List \$15.00
K57— $\frac{1}{4}$ " shaft, Servicemen's Assortment of 12 knobs in a cellophane display envelope. List \$3.60
K90A— $\frac{1}{4}$ " shaft, assortment of 50 knobs in a display carton.
List \$15.00

Servicemen's Assortment of 12 chrome-plated brass knobs in cellophane bag.
(K56, K57)





Auto Antennas

JFD CUSTOM BUILT DELUXE STAR AUTO RADIO ANTENNAS

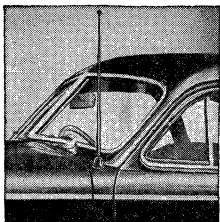
The JFD Star and Standard Antennas are built of antimonial-admiralty brass tubing, stainless steel type rods, of high tension flexible strength—rattle-proof construction—heavily chrome plated.

By direct comparison, the JFD STAR antenna is actually 50% heavier than other makes, with proportionately greater signal capacity and rigidity.

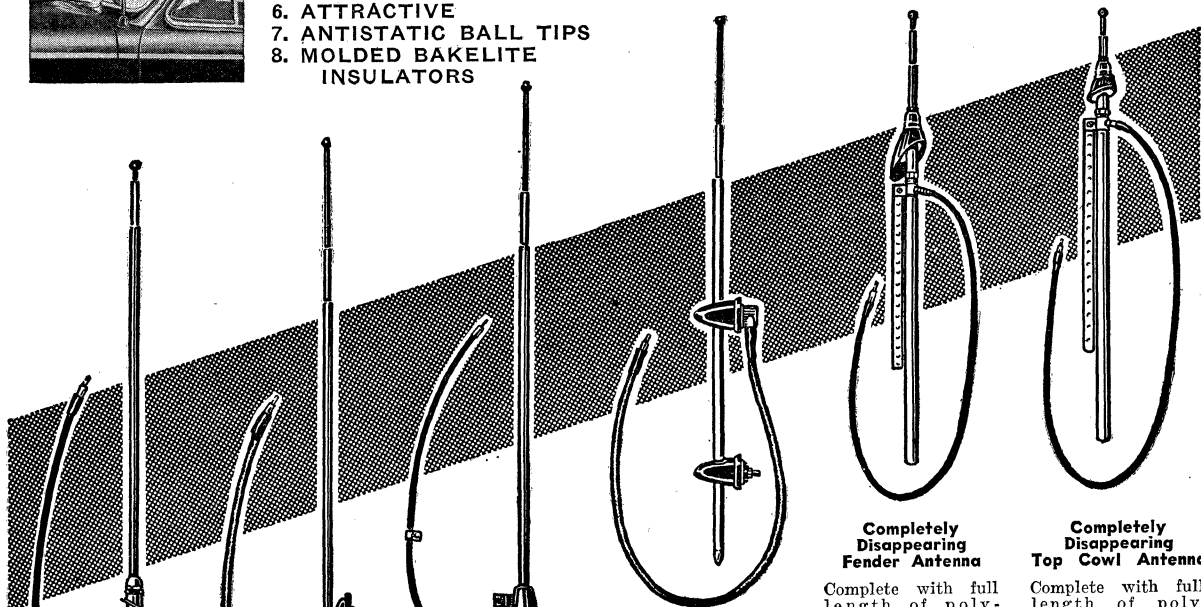
Every JFD Star and Standard Antenna is equipped with a full length of Q.H.F. low-loss Polyethylene air-gap type shielded cable to prevent noise pickup, together with necessary mounting brackets designed to give a custom-built appearance. All antennas come individually packed—10 to the master carton.

JFD ANTENNA FEATURES

1. NOISELESS
2. RUSTPROOF
3. WILL NOT JAM
4. ONE-MAN INSTALLATION
5. FITS ALL CARS
6. ATTRACTIVE
7. ANTISTATIC BALL TIPS
8. MOLDED BAKELITE INSULATORS



STAR ANTENNAS



Single Mounting Cowl Antenna

Adjustable to fit Torpedo shaped body.

Complete with full length of polyethylene shielded cable and all necessary mounting accessories.

Standard 3B6066 List 3-section 66" \$4.45

Standard 3B6099 List 3-section 99" \$5.70

Star Heavy Duty SC 6066 List 3-section 66" \$5.45

SC 6099 List 3-section 99" \$6.70

Alligator Hood or Hinge Antenna

Complete with full length of polyethylene shielded cable and all necessary mounting accessories.

Standard AL60 List 3-section 60" \$4.95

Star Heavy Duty UH100 List 3-section 60" \$5.95

Side Cowl Antenna

Complete with full length of polyethylene shielded cable and all necessary mounting accessories.

Standard 3B66C List 3-section 66" \$4.45

Standard 3B99C List 3-section 99" \$5.70

Star Heavy Duty SC 1066 List 3-section 66" \$5.45

SC 1099 List 3-section 99" \$6.70

Completely Disappearing Fender Antenna

Complete with full length of polyethylene shielded cable and all necessary mounting accessories.

Standard 3B 3000 List 3-section 60" \$7.95

Star Heavy Duty 3C 3000 List 3-section 60" \$8.95

Completely Disappearing Top Cowl Antenna

Complete with full length of polyethylene shielded cable and all necessary mounting accessories.

Standard 3B5000 List 3-section 60" \$7.95

Star Heavy Duty 3C5000 List 3-section 60" \$8.95

Top Cowl Antenna

Complete with a 43 1/2" coaxial cable with necessary mounting accessories.

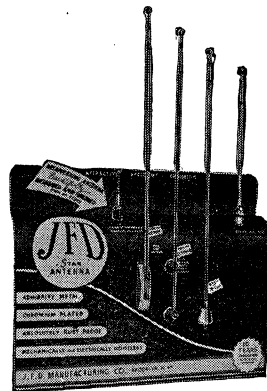
Standard 3B4000 List 3-section 60" \$6.25

Star Heavy Duty SC 4000 List 3-section 60" \$7.25

JFD AUTO ANTENNA DISPLAYS

Increase your Antenna Sales — by displaying prominently!

The New JFD Antenna Displays are beautifully finished in four colors. One each of the six antennas illustrated above is mounted on the card as it will appear on the auto.



You pay only for the antenna—Display Board is FREE!

Display No. 990—6 JFD STAR Heavy Duty AntennasList Price \$42.00

Display No. 991—6 JFD STANDARD Auto AntennasList Price \$36.00



AUTO RADIO ACCESSORIES

JFD "LOW LOSS" ANTENNA LEAD CABLES

Heavy Lacquered—Protected by
Shielded Loom Covered with
Processed Braid

GENERAL PURPOSE LEADS



With male connector and aerial
and ground lead.

No.	Length	List
3022	2 ft.	\$0.90
3025	4 ft.	1.28
3026	6 ft.	1.57
3027	8 ft.	1.96



With male and female connectors.

No.	Length	List
3023	2 ft.	\$0.90

With both male connector ends.

No.	Length	List
3024	2 ft.	\$0.90



With male connector and ground
box.

No.	Length	List
3017S	3 ft.	\$1.54



With set plug-in for Motorola and
ground box.

No.	Length	List
3017M	3 ft.	\$1.54

INDIVIDUAL CARTONS

WHEEL HUB STATIC ELIMINATORS



No. 4000

An essential for every auto ra-
dio installation. Used under hubs
of front wheels.

List, Each \$0.12

SPECIAL WHEEL STATIC ELIMINATOR Flat Contact



For All 1940-41
General Motors Cars
No. 4007.....List, Each \$0.15

Phosphor Bronze Hood Static Eliminator



For contact between hood and
frame of car. Eliminates static
caused by poor grounded hood.
No. 4008 List, Each \$0.11

JFD CUSTOM-BUILT MOUNTING HARD- WARE FOR ALL AUTO RADIO ANTENNAS

Will fit JFD, Ward, Radiart, Philco, Motorola,
Delco, ICA, Snyder, Radel, and all other makes
of antennas.

No. 516—STRAIGHT SIDE COWL MOUNTING For antennas with $\frac{1}{8}$ " dia. tubing



Quan.	Type	Description	List, Ea.
2	A	Porcelain Insulators	\$0.30
2	B	Rubber Pads	.05 1/2
2	C	Eyebolts	.07
2	D	Spider Washers	.06
1	E	Shield Cup	.10
2	F	Shoulder Bushings	.04
1	G	Set of 2 flat washers and 4 nuts	.10

No. 516—Complete Kit listed above.....List \$1.25

No. 518—STRAIGHT SIDE COWL MOUNTING For antennas with $\frac{1}{8}$ " dia. tubing

Quan.	Type	Description	List, Ea.
2	AA	Porcelain Insulators	\$0.37 1/2
2	B	Rubber Pads	.05 1/2
2	CC	Eyebolts	.10
2	D	Spider Washers	.06
1	E	Shield Cup	.10
2	F	Shoulder Bushings	.04
1	GG	Set of 2 flat washers and 4 nuts	.14

No. 518—Complete Kit listed above.....List \$1.50

No. 517—SLOPING COWL MOUNTING For antennas with $\frac{1}{8}$ " dia. tubing



Quan.	Type	Description	List, Ea.
2	A	Porcelain Insulators	\$0.30
2	B	Rubber Pads	.05 1/2
2	C	Eyebolts	.07
2	D	Spider Washers	.06
1	E	Shield Cup	.10
2	F	Shoulder Bushings	.04
1	G	Set of 2 flat washers and 4 nuts	.10

No. 517—Complete Kit listed above.....List \$1.25

No. 519—SLOPING COWL MOUNTING For antennas with $\frac{1}{8}$ " dia. tubing

Quan.	Type	Description	List, Ea.
2	AA	Porcelain Insulators	\$0.37 1/2
2	B	Rubber Pads	.05 1/2
2	CC	Eyebolts	.10
2	D	Spider Washers	.06
1	E	Shield Cup	.10
2	F	Shoulder Bushings	.04
1	GG	Set of 2 flat washers and 4 nuts	.14

No. 519—Complete Kit listed above.....List \$1.50

No. 616—SINGLE BRACKET MOUNTING For antennas with $5/16$ " dia. tubing



Quan.	Type	Description	List, Ea.
1	P	Single mount fender and side cowl bracket	\$1.00
1	M	Rubber mat	.10
2	C	Eyebolts	.07
2	D	Spider Washers	.06
1	E	Shield Cup	.10
2	F	Shoulder Bushings	.04
1	G	Set of 2 flat washers and 4 nuts	.10
2	S	Spacer Bushings	.05 1/2

No. 616—Complete Kit listed above.....List \$1.75

No. 618—SINGLE BRACKET MOUNTING For antennas with $\frac{1}{8}$ " dia. tubing

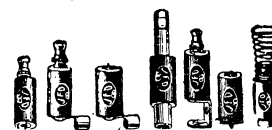
Same as above except that you get 2-CC and
1-GG.

No. 618—Complete KitList \$1.75

JFD AUTO MOTOR SPARK NOISE SUPPRESSORS AND CONDENSERS

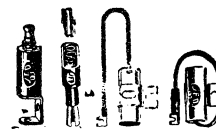
Maximum efficiency for both radio and motor is
insured by the use of JFD Suppressors. They are
designed with long resistors, minimum capacity
and have the best possible ratio of RF to DC
resistance. Adequate noise suppression is given by
a resistance of only 10,000 ohms and with this
low DC resistance, full motor efficiency is as-
sured. Very strong mechanically, they will with-
stand high voltage, vibration, heat and every
weather condition.

With the exception of the Ford special, which
has a resistance of 200,000 ohms, the standard
resistance is 10,000 ohms.



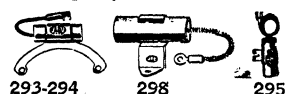
280 281 282 283 284 285 286-87

No.	Description	List, Ea.
280	—SCREW ON PLUG TYPE. Will fit most popular cars	\$0.30
281	—SNAP ON PLUG TYPE. Snaps on plug at any angle	.30
282	—SNAP ON PLUG CABLE END TYPE. Replaces regular cable end	.30
283	—DISTRIBUTOR TYPE. Placed in series with center distributor cable	.30
284	—BRACKET TYPE. For older type cars.	.30
285	—CABLE TYPE. To be inserted in spark plug cable near spark plug	.30
286	—SPECIAL RESISTOR BRUSH. Replaces regular distributor brush on Ford 1936- 37-38	.30
287	—SPECIAL RESISTOR BRUSH. Replaces regular distributor brush on Ford 1935 and previous cars	.30



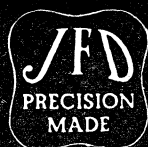
288 297 291-292 290

No.	Description	List, Ea.
288	—DESIGNED ESPECIALLY FOR FORD CARS. Has a higher resistance required for this type of motor	\$0.30
297	—IMPROVED DISTRIBUTOR SUPPRESS- SOR. No tools required, just press sup- pressor into the distributor head and snap cable end into the suppressor	.30
290	—DOME AND AMMETER CONDENSER. Double spade tips aid in easy installa- tion—capacity $\frac{1}{2}$ mfd.	.50
291	—UNIVERSAL GENERATOR CON- DENSER. Double spade tips aid in easy installation—capacity $\frac{1}{2}$ mfd.	.50
292	—UNIVERSAL GENERATOR CON- DENSER. Capacity 1 mfd.	.95



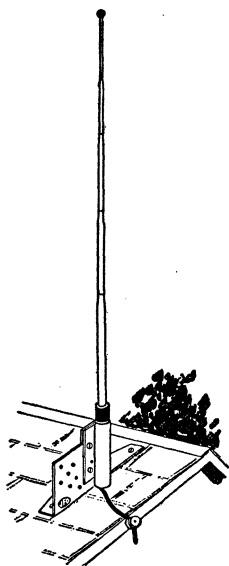
293-294 298 295

No.	Description	List, Ea.
293	—CONDENSER DESIGNED FOR 1937 FORD V8 DISTRIBUTOR HEAD. Elimina- tes interference caused by brush spark- ing, etc.	\$0.80
294	—CONDENSER FOR 1936 FORD and previous distributor heads	.80
295	—GAS GAUGE FILTER CONDENSER. Capacity .05 mfd.	.50
298	—GENERATOR CONDENSER FOR 1940 FORD CARS. With special bracket for use on 1940 Ford cars	.80



VERTICAL NON-DIRECTIONAL HOME ANTENNAS

JFD Vertical Non-Directional Home Antennas are easily and quickly installed on flat roofs, walls, eaves, windows, ridge poles, parapets or anywhere else. Improves short-wave and broadcast reception on new and old model sets. These antennas use the improved adjustable brackets to simplify installations. Approved by leading manufacturers.



4 SECTIONS

Extends to 12 ft. With single bracket and 40 ft. of durable lead-in wire.

No. 3071RA

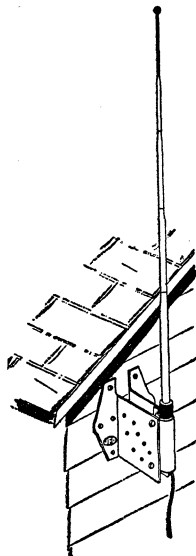
Steel Tubing, Cadmium plated.

No. 3072RA DE-LUXE

Large diameter admiralty metal tubing. Heavily plated, beautiful finish, rust-proof.

No. 3073RA

Admiralty metal—Heavily plated, beautiful finish, rust proof.



5 SECTIONS

Extends to 16 ft. 4 in. With double bracket, and 40 ft. of durable lead-in wire.

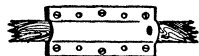
No. 3074RA

Steel tubing, cadmium plated.

No. 3075RA

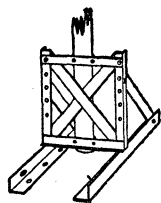
Admiralty metal—Heavily plated, beautiful finish, rust proof. With 40 ft. durable lead-in wire.

CONNECTOR



For joining mounting poles or for fastening guy wires to top of pole. Heavy steel, aluminum plated.

No. BR 23

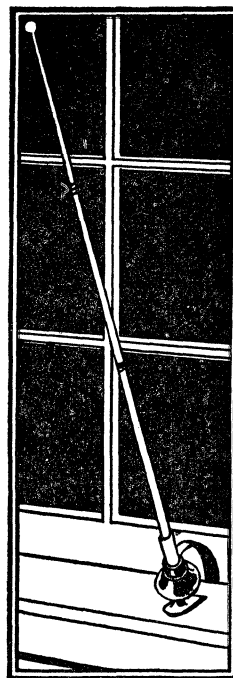


ANGLE STEEL M'T'G BRACKET

For roof, wall corner or chimney, welded construction.

No. BR 3 (12 x 12)

No. BR 5 (14 x 16)



No. 3070 WINDOW ANTENNA

FOR APARTMENT HOUSES, HOTELS, ROOMING HOUSES, ETC.

Three piece telescopic. Eight feet long extended. Tubular steel. Easily attached to any window sill. Complete with mounting bracket and screws.

Individual Cartons

No. 3070B WINDOW ANTENNA

Three piece telescopic. First two sections Admiralty metal tempered seamless tubing, chromium plated — third section polished stainless steel. Extends to 96 inches.

JFD DOUBLET LIGHTNING ARRESTER



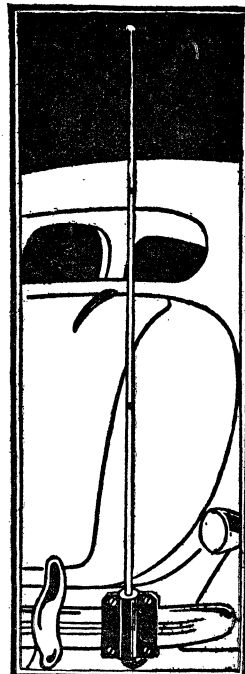
Specially designed to match JFD Home Antennas, as well as all other makes. Has built in condenser.

No. 403

MOUNTING STRAP

For mounting pole on vent pipe. 18 inches long.

No. BR 9



No. 3040 BUMPEROD ANTENNA

Three piece telescopic. Eight feet long extended. Tubular steel. Easily attached to front or rear bumpers. No drilling. Fits all cars.

Individual Cartons

DE LUXE No. 3040B BUMPEROD ANTENNA

Three piece telescopic. . . . First two sections Admiralty metal tempered seamless tubing, chromium plated — third section polished stainless steel. Extends to 96 inches.

WOODEN M'T'G POLE



For increasing the height of the standard where necessary. Made of hard wood lacquered. 4 feet long.

No. BR 19

GALVANIZED IRON PIPE

1 inch diameter — 8 feet long.

No. BR 20



Radio Cements & Solvents



JFD RADIO CEMENT

Is a special preparation for the repair of radio and speaker parts. It is of special value in the repairing or replacing of old cones on speakers, in stiffening and coating voice coils and spiders, in cementing grid caps and tube bases, etc. It is a reliable cement — vibration-less, waterproof, transparent. Every bottle comes with brush attached to bottle cap.

No.	List
ST 40-4—4 oz.	\$0.90
ST 40-8—8 oz.	1.60
ST 40-16—1 pt.	3.00
ST 40-G—1 gal.	9.35



JFD CEMENT AND SOLVENT KIT

Easy and convenient to carry —both bottles put up in a neat special carton. Kit consists of one 4 oz. bottle of JFD Radio Cement and one 4 oz. bottle of JFD Radio Solvent. Cement can be used for cementing parts to chassis, repairing and replacing old cones on speakers, stiffening voice coils, cementing grid caps, etc. Solvent can be used as a cleaning solution for volume controls, contact points and all movable metal parts. Cement bottle contains handy brush attached to cap.

No. ST 400.....List \$1.40

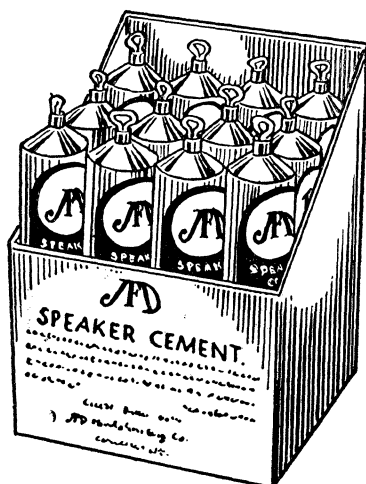


JFD RADIO SOLVENT

Is a special preparation for loosening cement on speaker cones, spiders and voice coils. Simply saturate the cemented part and it loosens in a few minutes. JFD Solvent can also be used as a cleaning solution for volume controls, contact points and all movable metal parts.

No.	List
ST 41-4—4 oz.	\$0.50
ST 41-8—8 oz.	.75
ST 41-16—1 pt.	1.25
ST 41-G—1 gal.	5.00

JFD RADIO CEMENT IN TUBES



DISPLAY CARTONS OF 1 DOZEN

Neatly packaged, attractive carton of 12 Tubes of JFD Cement.

No.	List
ST 40-T12—per Carton	\$5.04

HANDY FOR
SERVICEMAN
TO CARRY
ON THE JOB

Applied directly from the tube to the work to be cemented. No brush is required.



Moisture proof, waterproof, oil-proof, vibration proof, flexible and quick drying; this cement will be found satisfactory, not only for repairing speakers and speaker cones but for radio set parts, cabinets, etc.

No.	List
ST 40-T2—2 oz. Tube	\$0.42
ST 40-T4—4 oz. Tube	.84



JFD CARBON TETRACHLORIDE

Is an invaluable and effective cleaner for contact points, volume controls, tuning condensers, fabrics, grille cloth and all movable parts.

No.	List
ST 42-4—4 oz.	\$0.50
ST 42-8—8 oz.	.85
ST 42-16—1 pt.	1.50
ST 42-32—32 oz.	2.45
ST 42-G—1 gal.	5.75



Feather-Touch Playback Needles

Long Life — Fine Tone — Full Record Protection

JFD FEATHER-TOUCH PHONOGRAPH NEEDLES will give you COMPLETE satisfaction. The JFD FEATHER-TOUCH NEEDLES possess fine tone, long life, and full record protection. There is nothing more that a fine needle can offer!

The sale of good needles is profitable. Each year more and more phonographs, records, discs, and needles are sold. Last year's sales reached an all-time high, with more than 200,000,000 rec-

ords and discs being sold. The sale of needles has increased to astounding proportions; the new JFD needles should greatly stimulate these sales.

ALL JFD FEATHER-TOUCH PHONO NEEDLES are shadow-graphed and mounted on attractive, colorful, self-selling displays. Each individual needle is mounted on an attractive card, individually wrapped in cellophane.



PN-060 This feather-touch needle is guaranteed for a minimum of 2000 playings. It has excellent tone, unusual in the low class field. It will outplay, and give finer performance than any needle on the market in its class. The PN-060 is shadow-graphed, made of fine alloy metals, with precious metal point.

PN-060—Each \$.60 list. 24 individually wrapped needles on beautiful display card.

\$14.40 List



PN-100 This feather-touch needle is guaranteed for a minimum of 4000 playings. It is truly a de-luxe needle, containing a long life highly polished precious metal point, cushioned shaft, clear bell shank to produce balanced tone. For record performance and protection, this needle is tops in its field. Each needle is shadow-graphed and mounted on an attractive three-color card, individually wrapped in cellophane.

PN-100—Each \$1.00 list. 12 individually wrapped needles on beautiful display card.

\$12.00 List



PN-150 This JFD feather-touch needle is guaranteed for a minimum of 6000 playings. Will not scratch or scrape records and will produce fine tone quality. The clarity of this needle is due to its highly polished curved shank construction and bell-like precious metal alloy tip. Each needle is carefully shadow-graphed and mounted on a beautiful three-color display card, individually wrapped in cellophane.

PN-150—Each \$1.50 List. 12 individually wrapped needles on beautiful display card.

\$18.00 List

JFD CUTTING NEEDLES



CN-060 The JFD feather-touch recording stylus is guaranteed for a minimum of 300 cuttings on 6 inch discs. This sturdy, precious metal, alloy tipped needle, cuts a V bottom groove. It is highly polished, long wearing and a producer of best in recording. Unusual for its price, this shadow-graphed cutting needle is especially recommended for amateur use. Each needle is individually wrapped in cellophane and mounted on a striking three-color display card.

CN-060—Each \$.60 list. 24 individually wrapped needles on beautiful display card.

\$14.40 List

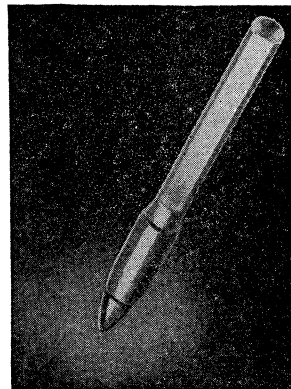


CN-100 This high quality feather-touch recording stylus is guaranteed for a minimum of 500 cuttings on a 6 inch disc. Designed with an electrically welded and microscopically ground tip, CN-100 provides the finest in tonal quality. It is a highly polished needle, carefully shadow-graphed and especially recommended for both amateur and professional use. Each needle is individually wrapped in cellophane and mounted on a striking three-color display card.

CN-100 — Each \$1.00 list. 12 individually wrapped needles on beautiful display card.

\$12.00 List

JUKE BOX SAPPHIRE



JB-250 Contains all the desirable characteristics of the SN-300. Its straight, sturdy shank is developed expressly for use in commercial coin boxes. In use, it gives a richer tone and high volume, thus enabling the operator to reduce the volume control of his juke box.

JB-250.....Each \$2.50 List
Comes individually mounted on an attractive card inserted in a cellophane envelope, in boxes of 12.

List Price, per box.....\$30.00

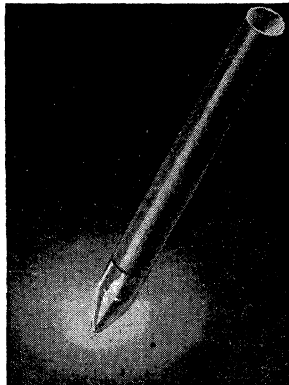


SAPPHIRE NEEDLES



SN-200—This sturdy-shanked Sapphire Needle contains a carefully calculated precision point, diamond lapped by hand. Each needle undergoes careful microscopic inspection and is individually shadowgraphed. Has twice the plays of any metal needle at any price. Comes individually wrapped in cellophane and mounted on an attractive three-color display card.

SN-200—Each \$2.00 List. 12 individually wrapped needles on beautiful display card.
List Price per card \$24.00



SN-500—"The finest Ruby Sapphire needle on the market!" Slightly under one full karat of sapphire is used. No other jewel needle approaches this quality and value at any price. Contains a full solid sapphire shank—not just a chip. Smooth gliding action. Microscopically inspected three times—individually shadowgraphed to insure perfection. **GUARANTEED FOREVER BY REGISTERED CERTIFICATE!** This needle remains a permanent part of the phonograph.

SN-500—Each \$5.00 List. Mounted on beautiful three-color display card packaged in attractive Clear-View Plastic boxes — Six boxes to card.....List Price per card \$30.00



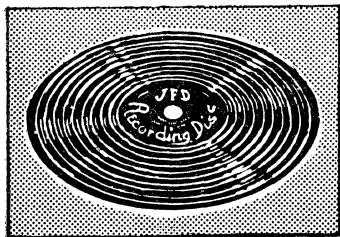
SN-300—This Sapphire Needle eliminates surface noises with full measure of amplification. Has a flame-polished point. It contains a full rod jewel—not just a polished chip. Scientifically balanced Dural shank. Microscopically inspected three times; individually shadowgraphed to insure perfection. Individually wrapped in cellophane and mounted on attractive three-color display card.

SN-300—Each \$3.00 List. 10 needles individually packed in Clear-View Plastic box. Mounted on beautiful display card.

List Price per card \$30.00

J. F. D. PHONOGRAPH ACCESSORIES

JFD HOME RECORDING DISC



The finest in home recording discs. Check these exclusive JFD Features:

1. Made on a fibre base.
2. Absolutely grit-free—eliminates all surface noises.
3. One piece surface chemically treated.
4. Title can be written with pen or pencil.
5. Fits all standard recorders.
6. Comes in convenient index envelope.
7. Two playing faces on each disc.
8. Light in weight.
9. Flexible—will not crack or break.
10. Will not dry out or deteriorate.
11. Shavings are flame-proof.
12. Non-peeling surface.
13. Low in cost.

No.	Size
64-1	6 1/2"
64-2	8"
64-3	10"
64-4	12"

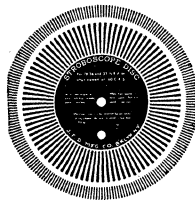
JFD BEARING LUBRICANT



To lengthen the life and improve the performance of any recording machine. Just the thing for turntable spindles, phonograph motors, recording mechanisms. Non-acid. Will not dry out, thin or run.

No. ST722
\$0.50 List — 2 oz.
No. ST724
\$0.65 List — 4 oz.

STROBOSCOPE DISC



Accurately calibrated stroboscope for adjusting both phono playback and record making speeds. 78 and 33 1/2 RPM. 6" Diameter. Complete instructions on face.

No. ST188.....List \$0.12

JFD RECORD LUBRICANT

Makes records last longer. Reduces surface noises and lessens wear on records. When used as a lubricant before recording, it makes a better recording—and one that will last longer.

No. ST712
2 oz.\$0.35
No. ST714
4 oz.\$0.50



JFD RECORD COMPOUND

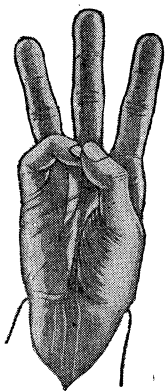
Longer life and better tone for all records and recordings! Renews old records and improves reproduction by removing all dirt and loose particles, lubricating the surface and hardening the grooves. Preserves new records.

No. ST702
2 oz.\$0.45
No. ST704
4 oz.\$0.60





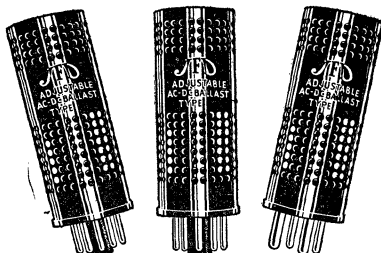
Improved • Air-Cooled AC-DC Adjustable Ballasts



Just

3 Adjustable Ballasts

Replace Over **3000**
Exact Duplicate AC-DC Resistance Tubes!



Type A
6 Prong

Type B
6 Prong

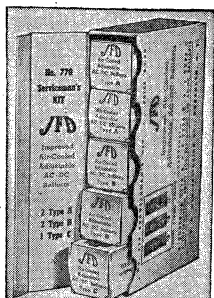
Type C
4 Prong

JFD IMPROVED AIR-COOLED ADJUSTABLE AC-DC BALLASTS HAVE THESE IMPROVEMENTS:

1. Air-Cooled Perforated Shell
2. Larger Insulating Surface
3. Longer Life, Heavier Resistance Wire
4. Exact Adjustments made

LIST PRICE \$1.50 ea.

Over 3,000,000 JFD Adjustable Ballasts have been sold since 1934 — practically every one still in use, giving service and satisfaction.

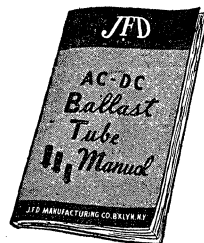


Dealer's and Serviceman's Kit
Improved • Air-Cooled
AC-DC Adjustable Ballasts

No. 770—SERVICEMEN'S KIT
contains 5 Ballasts: 2 Type A, 2 Type B, 1 Type C Ballasts together with listing of over 2500 replacements and complete instructions.....List Price \$7.50

"FREE" — AC-DC BALLAST MANUAL.
ASK YOUR JOBBER FOR IT.

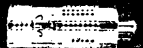
Gives information on how to adapt adjustable ballasts to all service jobs.



USE JFD BALLASTS	TO REPLACE AC-DC RESISTANCE TUBES		
	Beginning with Letter	With Numbers Including	Ending with letter
"A" Ballasts	K, L, M, BK, BL, or BM	6 through 42	A, B, C, D, F, G, or H
"B" Ballasts	K, L, M, BK, BL, or BM	45 through 105	A, B, C, D, F, G, H, S1, S2, S3
"C" Ballasts	All 4 prongs	80 through 350	R, R4, R8, L, L4, L8

AC-DC STANDARD TUBES—RMA STANDARD CODING

Type No.	List Price	Type No.	List Price	Type No.	List Price	Type No.	List Price	Type No.	List Price	Type No.	List Price
10A Addison	\$1.00	M36B	1.00	M42D	1.00	L49B	1.00	BK55D	1.00	M73B	1.00
17A	1.00	M36C	1.00	M42E	1.00	L49BJ	1.25	K55F	1.00	K74B	1.00
K17B	1.00	M36D	1.00	M42F	1.00	L49C	1.00	K55H	1.00	K74C	1.00
K17C	1.00	42A	1.00	M42H	1.00	L49CJ	1.25	KX55A	1.25	K74D	1.00
L17B	1.00	42B2	1.25	49A	1.00	L49D	1.00	KX55B	1.25	80A	1.00
L17C	1.00	K42B	1.00	K49B	1.00	L49DJ	1.25	KX55C	1.25	K80B	1.00
K22B	1.00	K42BJ	1.25	K49BJ	1.25	L49E	1.00	L55B	1.00	K80C	1.00
K23B	1.00	BK42B	1.00	BK49B	1.00	L49F	1.00	L55C	1.00	K80D	1.00
L23B	1.00	BL42B	1.00	K49C	1.00	LX49B	1.25	L55CP	1.25	K80F	1.00
L23C	1.00	K42C	1.00	BK49C	1.00	LX49C	1.25	L55D	1.00	K80H	1.00
33A	1.00	BK42C	1.00	K49CJ	1.25	LX49D	1.25	L55F	1.00	L80B	1.00
33AG	1.00	BL42C	1.00	K49D	1.00	M49B	1.00	L55H	1.00	L80C	1.00
36A	1.00	K42D	1.00	BK49D	1.00	M49C	1.00	M55B	1.00	M80B	1.00
K36B	1.00	BK42D	1.00	K49E	1.00	M49D	1.00	M55C	1.00	M80C	1.00
BK36B	1.00	KX42A	1.25	K49F	1.00	M49H	1.00	M55D	1.00	K87B	1.00
K36BJ	1.25	KX42B	1.25	K49H	1.00	50	1.00	M55F	1.00	90A	1.00
K36C	1.00	KX42C	1.25	KX49A	1.00	K52H	1.00	M55H	1.00	K90B	1.00
K36D	1.00	L42B	1.00	KX49B	1.25	55A	1.00	60R30	1.25	K90C	1.00
K36H	1.00	L42BJ	1.25	KX49C	1.25	K55A	1.00	62A	1.00	92A	1.00
KX36A	1.25	L42C	1.00	KX49D	1.25	K55B	1.00	K67B	1.00	K92B	1.00
KX36B	1.25	L42CJ	1.25	KY49A	1.25	BK55B	1.00	K67BJ	1.25	K92C	1.00
KX36C	1.25	L42D	1.00	KY49B	1.25	BL55B	1.00	K67C	1.00	K92D	1.00
L36B	1.00	L42DJ	1.25	KY49C	1.25	BM55B	1.00	K67D	1.00	K92F	1.00
L36C	1.00	L42E	1.00	KZ49A	1.25	K55C	1.00	L67C	1.00	K92H	1.00
L36D	1.00	M42B	1.00	KZ49B	1.25	BK55C	1.00	K72B	1.00		
L36DJ	1.25	M42C	1.00	KZ49C	1.25	K55D	1.00	K73C	1.00		



Ballasts Replaceable Only



by JFD Exact Duplicates

ORDER BY TYPE NUMBER

Type No.	List Price	Type No.	List Price	Type No.	List Price	Type No.	List Price	Type No.	List Price
1A1/5E1 Philco	\$1.25	35-22 Pilot	\$2.40	100-82 Zenith	\$1.25	200R8	\$1.25	W45788	\$1.25
1B1 Philco	1.25	35-23 Pilot	3.00	100-83 Zenith	1.25	FM203	1.25	W46416	1.25
1C1 Philco	1.25	35-24 Pilot	3.00	100R	1.25	250L4	1.25	W46773	1.25
1D1 Philco	1.25	35-25 Pilot	2.40	100R4	1.25	250L8	1.25	W48669 Crosley	
1E1 Philco	1.25	35-26 Pilot	3.00	100R8	1.25	250M4	1.25	Air Cooled	2.40
1G1 Philco	1.25	35-27 Pilot	3.00	KX105B	1.25	250M8	1.25	W48670 Crosley	1.25
1J1 Philco	1.25	35-28 Pilot	3.00	115.15 Fada	1.25	FM254	1.25	81963 Pilot	2.40
1K1 Philco	1.25	35-29 Pilot	3.00	115.16 Fada	1.25	165M8	1.25	81966 Pilot	1.25
1R1G Philco	1.25	35-30 Pilot	2.40	115.17 Fada	2.40	250R	1.25	81967 Pilot	2.40
1T1G Philco	1.25	35-31A Pilot	2.40	115.18 Fada	1.25	250R4	1.25	81971-2 Pilot	2.40
1K1 Philco	1.25	35-32 Pilot	2.40	115.19 Fada	2.40	250R8	1.25	81972-2 Pilot	2.40
1Y1 Philco	1.25	K38B2	1.25	115.20 Fada	1.25	260	1.25	81974 Pilot	1.25
1Z1 Philco	1.25	40A2	1.25	115.21 Fada	1.25	260K1 RCA		81975 Pilot	2.40
2 Philco	1.25	40X300	1.25	115.23 Fada	1.25	Air Cooled	2.40	81978 Pilot	2.40
03G Air King	1.25	K42B7J5	1.25	115.24 Fada	1.25	275	1.25	81985 Pilot	1.25
2VR215 Emerson	1.00	L42BX	1.25	115.25 Fada	1.25	FM288	1.25	K83747-6 RCA	1.25
2VR215 Emerson	1.00	K42C54	1.25	115.26 Fada	1.25	D300 Dewald	1.25	84147 Pilot	1.25
2UR224 Emerson	1.00	L42DSX	1.25	115.27 Fada	1.25	300R	1.25	84151 Pilot	1.25
3CR241 Emerson	1.25	L42DX	1.25	115.42A Fada	1.25	300R4	1.25	84152 Pilot	1.25
3ER248 Emerson	1.25	L42S1	1.25	115.43 Fada	1.25	300R8	1.25	84364-2 Pilot	1.25
3 Philco	1.25	L42S2	1.25	115.43X Fada	1.25	FM319	1.25	84428 Pilot	1.25
03G Air King	1.25	L42S3	1.25	115.44 Fada	1.25	320R	1.25	84430 Pilot	1.25
3MR253 Emerson	1.50	43X106	3.00	115.46 Fada	1.25	320R4	1.25	84431-2 Pilot	2.40
4 Philco	1.25	43X108A Air Cooled	3.00	115.47X Fada	1.25	320R8	1.25	84445 Pilot	2.40
CB4 Philco	1.25	43X114 Air Cooled	3.00	115.49 Fada	1.25	350R	1.25	84446 Pilot	2.40
4SR311 Emerson	1.50	46A1 Majestic	1.25	115.53 Fada	1.25	FM370	1.25	84447 Pilot	2.40
5 Philco	1.25	46B1 Majestic	1.25	115.55 Fada	1.25	410	1.50	84448 Pilot	3.00
C5B Philco	1.25	49A1	1.00	115.58 Fada	2.40	J438 JFD	1.50	84650 Pilot	2.40
D5B Philco	1.25	49A2	1.25	115.65 Fada	1.25	FM458	1.25	84651 Pilot	2.40
WRL5	1.50	49B2	1.25	115.68 Fada	1.25	495K1 RCA	2.40	84652 Pilot	2.40
6	1.25	L49BX	1.25	115.78 Fada	1.25	MT650	1.25	84653 Pilot	3.00
6	1.80	L49S1	1.25	115.79 Fada	2.40	D740 Dewald	1.25	84821 Pilot	2.40
6.126 Garod	1.80	L49S2	1.25	115.82 Fada	1.25	RR782 G. E.	1.25	84824 Pilot	3.00
6.128 Garod	1.80	L49S3	1.25	115.84 Fada	1.25	808-1	1.25	K85277-3 RCA	2.40
6.130 Garod	1.25	50A2	1.25	115.89 Fada	1.25	808-2	1.50	Air Cooled	2.40
6.134 Garod	1.80	50B2	1.25	115.96 Fada	1.25	808-4	1.50	K85277-4 RCA	2.40
6.141 Garod	1.80	50X3	1.25	115.98 Fada	2.40	874	1.25	Air Cooled	2.40
6.142 Garod	1.80	50X3T	1.25	115.109 Fada	2.40	878R48 Kadette	1.80	K85277-5 RCA	2.40
6.159 Garod	1.80	50X300	1.25	120R	1.25	M1128 JFD	2.40	Air Cooled	2.40
6.170 Garod	1.80	BKV51DJ Philco	1.50	120R8	1.25	1916	1.25	K85277-6 RCA	2.40
6.171 Garod	1.80	K55CP	1.25	L120-75CC	2.40	2342	1.25	Air Cooled	2.40
6.172 Garod	1.80	K55CPR	1.25	130-35	2.40	2342-1	1.50	M86892-1 RCA	1.25
D6B	1.25	K55J	1.25	R130-180	1.50	2911	1.25	M86892-2 RCA	2.40
E6B	1.25	L55S1	1.25	R130-7380	1.50	2916	1.25	Air Cooled	2.40
7	1.25	L55S2	1.25	140L4	1.25	2917	1.25	M86892-3 RCA	2.40
8	1.25	L55S3	1.25	140L44	1.25	2918	1.25	Air Cooled	2.40
9	1.25	M58B275	1.25	140L8	1.25	2919	1.25	M86892-4 RCA	2.40
10.610 Jackson Bell	1.25	64-23	1.25	140M4	1.25	R3003G Webster	1.25	Air Cooled	2.40
10.800	1.50	L75CC	1.25	140M8	1.25	3271	1.50	M86892-5 RCA	2.40
BKX11BJ Philco	1.25	77/100	1.25	140R	1.25	D4831A	1.50	Air Cooled	2.40
K17R	1.25	85L75CC	1.25	140R4	1.25	5465	1.25	M86892-6 RCA	2.40
BKX21BJ Philco	1.25	L90CC	1.25	140R8	1.25	D5468	1.50	Air Cooled	2.40
K22B2	1.25	100-37	1.25	D150 Dewald	1.25	5528	1.50	M86892-7 RCA	2.40
L26CC159	1.25	100-38	1.25	E157 Ferguson	1.25	C8064A	1.25	Air Cooled	2.40
33-3310	1.50	100-46 Zenith	1.80	160A JFD	1.50	C8064B	1.25	M86892-8 RCA	1.10
D35 Dewald	1.25	100-47 Zenith	1.80	R161-300	1.25	C8064C	1.25	M86892-9 RCA	2.40
35-2 Pilot	2.40	100-48 Zenith	1.80	165L4	1.25	C8064D	1.25	Air Cooled	2.40
35-3 Pilot	2.40	100-49 Zenith	1.80	165L8	1.25	8600	1.50	M86892-10 RCA	2.40
35-4 Pilot	2.40	100-55 Zenith	1.80	165L44	1.25	8663	1.25	Air Cooled	2.40
35-5 Pilot	3.00	100-56 Zenith	1.80	165MA	1.25	8850	1.50	M86892-11 RCA	2.40
35-6 Pilot	2.40	100-57 Zenith	1.80	165R	1.25	8917	1.50	Air Cooled	2.40
35-7 Pilot	2.40	100-58 Zenith	1.80	165R4	1.25	C9266 Lafayette	1.25	M91462-6 RCA	2.40
35-8 Pilot	2.40	100-59 Zenith	1.80	165R8	1.25	E14980	1.25	Air Cooled	2.40
35-9 Pilot	3.00	100-60 Zenith	1.80	165R44	1.25	16041	1.25	M91462-7 RCA	1.37
35-10 Pilot	3.00	100-61 Zenith	1.80	185L4	1.25	A16042	1.25	M91462-8 RCA	1.10
35-11 Pilot	3.00	100-62 Zenith	1.80	185L8	1.25	Y-Tu-16042	1.50	M95178-10 RCA	2.40
35-12 Pilot	3.00	100-63 Zenith	1.80	185L44	1.25	A16043	1.50	Air Cooled	2.40
35-13 Pilot	2.40	100-64 Zenith	1.80	185M4	1.25	P26871 Strom- Carl.	2.40	113365 Stew.-War.	1.25
35-14 Pilot	2.40	100-65 Zenith	1.80	185M8	1.25	W40655 Crosley	1.25	113506 Stew.-War.	1.25
35-15 Pilot	2.40	100-66 Zenith	1.80	185R	1.25	W42520 Crosley	1.25	119109 Stew.-War.	1.25
35-16 Pilot	2.40	100-70 Zenith	1.25	185R4	1.25	Air Cooled	2.40	160145 Stew.-War.	1.25
35-17 Pilot	2.40	100-74 Zenith	1.25	185R8	1.25	W43357	1.25	160540 Stew.-War.	1.25
35-18 Pilot	3.00	100-76 Zenith	1.25	185R44	1.25	W43506 Crosley	2.40	K920117-1 RCA	1.64
35-19 Pilot	3.00	100-77 Zenith	1.25	D200 Dewald	1.25	Air Cooled	2.40	K920146-1 RCA	1.80
35-20 Pilot	3.00	100-79 Zenith	1.25	200R	1.25	W44338 Crosley	2.40		
35-21 Pilot	2.40	100-81 Zenith	1.25	200R4	1.25	Air Cooled	2.40		

SELF ADJUSTING REPLACEMENT BALLASTS

These ballasts have the general characteristics of the originals. Wound with a special alloy wire having a very high temperature coefficient of resistance which results in excellent self regulation. Packed in attractive individual cartons.



\$2.25 ea.

	Cat. No.		Cat. No.		Cat. No.
BALDWIN	5300	KENNEDY	6400	SILVER-MARSHALL	6700
BELMONT	5400	426, 526, 626	6400	30, 30B, 60	6700
BREMER-TULLY	6000	726, 826, 632	6400	60B, 75, 75B	6700
S&L S&L	6100	1030	6400	95	6700
BRUNSWICK					
CLARION		MAJESTIC		SIMPLEX	6750
51, 53, 55	6150	No. 70	5000	SONORA	
GREBE		No. 90	5100	A30, A32, A40	6800
SK4	6200	No. 180	5200	A36, A44, A46	6850
HS5	6200	PEERLESS		STEWART-WARNER	
HAMMARLUND ROBERTS		71, 72	6600	900	6900
HIQ30	6300	SCOTT		950	7000
HIQ31	6350	AC10	6650	R100	7100

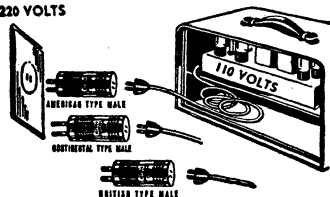


Plug-in
type

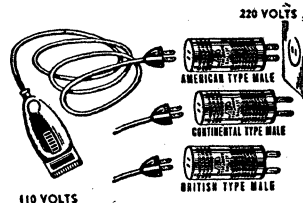
RESISTOR BALLASTS

STEP-DOWN FROM 220 VOLTS TO 110 VOLTS

220 VOLTS



JFD STEP-DOWN BALLAST



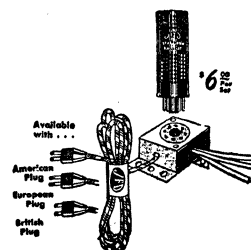
110 VOLTS

Use JFD voltage reducing ballasts on 220 volt current supply if you want to operate 110 volt appliances. Excellent for radios, floor lamps, clocks, therapeutic lamps, electric blankets, etc.

Catalog No.	Resist.	Current	Voltage Drop	Watts	Male End	Female End	Load	List Price
450	97	1.13	220-110	125	American	American	125 W Infra Red Therapeutic Lamp.....	\$2.40
451B	97	1.13	220-110	125	British	American	125 W Infra Red Therapeutic Lamp.....	2.40
451C	97	1.13	220-110	125	Continental	American	125 W Infra Red Therapeutic Lamp.....	2.40
456	250	.44	220-110	65	American	American	35-65 W Radio Heating Pads.....	2.40
457B	250	.44	220-110	65	British	American	35-65 W Radio Heating Pads.....	2.40
457C	250	.44	220-110	65	Continental	American	35-65 W Radio Heating Pads.....	2.40
458	300	.35	220-110	38	American	American	4-5 Tube AC-DC Radio, .3 Amp tubes.....	2.40
459B	300	.35	220-110	38	British	American	4-5 Tube AC-DC Radio, .3 Amp tubes.....	2.40
459C	300	.35	220-110	38	Continental	American	4-5 Tube AC-DC Radio, .3 Amp tubes.....	2.40
462	500	.22	220-110	25	American	American	General Use	2.40
463B	500	.22	220-110	25	British	American	General Use	2.40
463C	500	.22	220-110	25	Continental	American	General Use	2.40
464	560	.20	220-110	25	American	American	5 Tube AC-DC Radio Using .15 Amp tubes....	2.40
465B	560	.20	220-110	25	British	American	5 Tube AC-DC Radio Using .15 Amp tubes....	2.40
465C	560	.20	220-110	25	Continental	American	5 Tube AC-DC Radio Using .15 Amp tubes....	2.40
466	660	.167	220-110	8	American	American	General Use	2.40
467B	660	.167	220-110	8	British	American	General Use	2.40
467C	660	.167	220-110	8	Continental	American	General Use	2.40
468	1845	.082	220-110	9	American	American	Electric Razor	2.40
469B	1845	.082	220-110	9	British	American	Electric Razor	2.40
469C	1845	.082	220-110	9	Continental	American	Electric Razor	2.40
470	6000	.018	220-110	2	American	American	Electric Clock	2.40
471B	6000	.018	220-110	2	British	American	Electric Clock	2.40
471C	6000	.018	220-110	2	Continental	American	Electric Clock	2.40
472	110	.950	220-110	105	American	American	15-7 Watt Xmas lights in parallel.....	2.40
473B	110	.950	220-110	105	British	American	15-7 Watt Xmas lights in parallel.....	2.40
473C	110	.950	220-110	105	Continental	American	15-7 Watt Xmas lights in parallel.....	2.40
474	960	.115	220-110	13	American	American	Schick Razor	2.40
475B	960	.115	220-110	13	British	American	Schick Razor	2.40
475C	960	.115	220-110	13	Continental	American	Schick Razor	2.40
476	1100	.1	220-110	11	American	American	Packard Razor	2.40
477B	1100	.1	220-110	11	British	American	Packard Razor	2.40
477C	1100	.1	220-110	11	Continental	American	Packard Razor	2.40
478	475	.230	220-110	26	American	American	6 tube AC-DC Radio Using .15 Amp tubes....	2.40
479B	475	.230	220-110	26	British	American	6 tube AC-DC Radio Using .15 Amp tubes....	2.40
479C	475	.230	220-110	26	Continental	American	6 tube AC-DC Radio Using .15 Amp tubes....	2.40
480	300	.300	220-110	33	American	American	Remington Razor	2.40
481B	300	.300	220-110	33	British	American	Remington Razor	2.40
481C	300	.300	220-110	33	Continental	American	Remington Razor	2.40
482	785	.140	220-110	16	American	American	Portable Radio Total Current drain .140 Amp.	2.40
483B	785	.140	220-110	16	British	American	Portable Radio Total Current drain .140 Amp.	2.40
483C	785	.140	220-110	16	Continental	American	Portable Radio Total Current drain .140 Amp.	2.40
484	430	.255	220-110	28	American	American	Detrola Automatic Phono Turntable.....	2.40
485B	430	.255	220-110	28	British	American	Detrola Automatic Phono Turntable.....	2.40
485C	430	.255	220-110	28	Continental	American	Detrola Automatic Phono Turntable.....	2.40
488	2000	.055	220-110	6	American	American	General Use	2.40
489B	2000	.055	220-110	6	British	American	General Use	2.40
489C	2000	.055	220-110	6	Continental	American	General Use	2.40
490	143	.87	220-110	96	American	American	65-130 Watt 110 Volt Radio.....	2.40
491B	143	.87	220-110	96	British	American	65-130 Watt 110 Volt Radio.....	2.40
491C	143	.87	220-110	96	Continental	American	65-130 Watt 110 Volt Radio.....	2.40

FOR PHONO-RADIO COMBINATIONS

Cat. No.	Res.	Current	Voltage Drop	Watts		List Price
626-F (Radio)	560	.20	220-110	25	Combination Ballast and Adapter with American Plug	\$6.00
(Phonograph)	430	.255	220-110	28		
626-FB (Radio)	560	.20	220-110	25	Combination Ballast and Adapter with British Plug	\$6.00
(Phonograph)	430	.255	220-110	28		
626-FC (Radio)	560	.20	220-110	25	Combination Ballast and Adapter with Continental Plug	\$6.00
(Phonograph)	430	.255	220-110	28		





Plug-in
type

RESISTOR BALLASTS

for Fluorescent LIGHTING FIXTURES

Fluorescent wall fixtures, ceiling fixtures, and desk lamps designed for operation on AC may be used on DC of equivalent voltage by using one of these ballasts. Ballast has a receptacle at one end and a standard two-prong plug at the other.

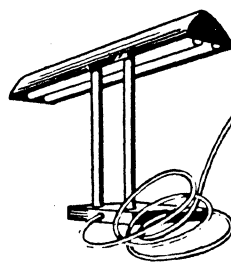
These ballasts are designed for domestic and foreign use, and operate on 25 to 60 cycles AC, or DC.



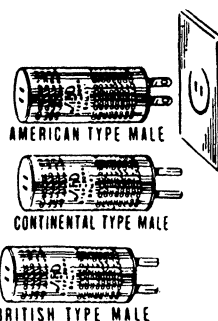
FOR CEILING FIXTURES

FOR WALL
FIXTURES

110 VOLTS.
OR
220 VOLTS



FOR DESK LAMPS



AMERICAN TYPE MALE

CONTINENTAL TYPE MALE

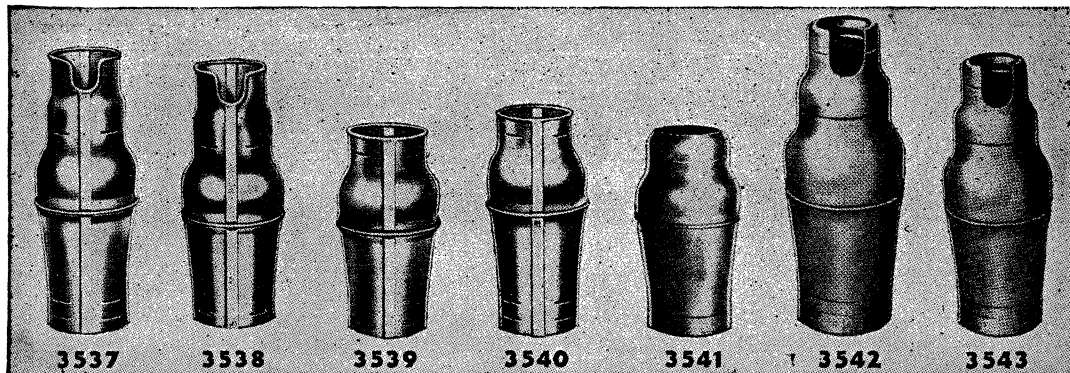
BRITISH TYPE MALE

CATALOGUE NO.	LAMP WATTS	CIRCUIT VOLTAGE	APPLICATION	LIST PRICE
492	4	117	For use with one 4 watt Fluorescent Lamp.....	\$2.10
492-2	2-4	117	For use with two 4 watt Fluorescent Lamps wired in Series.....	2.25
492-3	4	220 (Stepdown)	For use with one 4 watt Fluorescent Lamp with American Male.....	2.40
492-3B	4	220 (Stepdown)	For use with one 4 watt Fluorescent Lamp with British Male.....	2.40
492-3C	4	220 (Stepdown)	For use with one 4 watt Fluorescent Lamp with Continental Male.....	2.40
492-4	2-4	220 (Stepdown)	For use with two 4 watt Fluorescent Lamps wired in Series with American Male.....	2.40
492-4B	2-4	220 (Stepdown)	For use with two 4 watt Fluorescent Lamps wired in Series with British Male.....	2.40
492-4C	2-4	220 (Stepdown)	For use with two 4 watt Fluorescent Lamps wired in Series with Continental Male.....	2.10
494	6	117	For use with one 6 watt Fluorescent Lamp used only for converting from AC to DC.....	2.10
496	8	117	For use with one 8 watt Fluorescent Lamp used only for converting from AC to DC.....	2.10
486	14	117	For use with one 14 watt Fluorescent Lamp.....	2.10
486-2	2-14	117	For use with two 14 watt Fluorescent Lamps wired in Series.....	2.25
486-3	14	220 (Stepdown)	For use with one 14 watt Fluorescent Lamp with American Male.....	2.40
486-3B	14	220 (Stepdown)	For use with one 14 watt Fluorescent Lamp with British Male.....	2.40
486-3C	14	220 (Stepdown)	For use with one 14 watt Fluorescent Lamp with Continental Male.....	2.40
486-4	2-14	220 (Stepdown)	For use with two 14 watt Fluorescent Lamps wired in Series with American Male.....	2.40
486-4B	2-14	220 (Stepdown)	For use with two 14 watt Fluorescent Lamps wired in Series with British Male.....	2.40
486-4C	2-14	220 (Stepdown)	For use with two 14 watt Fluorescent Lamps wired in Series with Continental Male.....	2.40
454	15	117	For use with one 15 watt Fluorescent Lamp.....	2.10
454-2	2-15	117	For use with two 15 watt Fluorescent Lamps wired in Series.....	2.25
454-3	15	220 (Stepdown)	For use with one 15 watt Fluorescent Lamp with American Male.....	2.40
454-3B	15	220 (Stepdown)	For use with one 15 watt Fluorescent Lamp with British Male.....	2.40
454-3C	15	220 (Stepdown)	For use with one 15 watt Fluorescent Lamp with Continental Male.....	2.40
454-4	2-15	220 (Stepdown)	For use with two 15 watt Fluorescent Lamps wired in Series with American Male.....	2.40
454-4B	2-15	220 (Stepdown)	For use with two 15 watt Fluorescent Lamps wired in Series with British Male.....	2.40
454-4C	2-15	220 (Stepdown)	For use with two 15 watt Fluorescent Lamps wired in Series with Continental Male.....	2.40
452	20	117	For use with one 20 watt Fluorescent Lamp.....	2.10
452-3	20	220 (Stepdown)	For use with one 20 watt Fluorescent Lamp with American Male.....	2.40
452-3B	20	220 (Stepdown)	For use with one 20 watt Fluorescent Lamp with British Male.....	2.40
452-3C	20	220 (Stepdown)	For use with one 20 watt Fluorescent Lamp with Continental Male.....	2.40



TUBE SHIELDS

JFD Standard ST-12 and ST-14 "Form Fit" Tube Shields



Cat. No.	Description	Assembly Consists of	For Use with Following Tubes	List Per Assembly
3537	For ST12 long tubes, with grid cap shielding.	1 half shield plain 1 half shield notched 1 clamping ring	6C6, 6D6, 6D7, 6E7, 6U7G, 25B5, 57, 58, etc.	\$0.45
3538	For ST12 short tubes, with grid cap shielding.	1 half shield plain 1 half shield notched 1 clamping ring	1A4P, 1A6, 1C7G, 1F6, 2A7, 2B7, 6A7, 6A8G, 6C8G, 6F5G, 6F7, 6F8G, 6J7G, 6J8G, 6K7G, 6Q7G, 38, 39, 55, 77, 78, 79, 85, 89, etc.	.45
3539	For ST12 short tubes without grid cap shielding.	2 half shields 1 clamping ring	1E7G, 1H6G, 1J6G, 1V, 6H6G, 6J5G, 6P5G, 27, 30, 31, 37, 41, 56, 76, 84, 485, etc.	.45
3540	For ST12 long tubes without grid cap shielding.	2 half shields 1 clamping ring	6AB6G, 25N6G, etc.	.45
3541	For ST14 tubes without grid cap shielding.	2 half shields 1 clamping ring	01A, 1F4, 1F5G, 1G5G, 2A5, 6B5, 6F6G, 6N6G, 6N7G, 26, 33, 40, 42, 43, 45, 53, 71A, etc.	.25
3542	For ST14 tubes with grid cap shielding.	1 half shield plain 1 half shield notched 1 clamping ring	22, 24A, 32, 34, 35, etc.	.25
3543	For ST12 small tubes with grid cap shielding.	1 half shield plain 1 half shield notched 1 clamping ring	1A6, 1C6, 2A6, 2A7, 2B7, 6A7, 6B7, 6C6, 6D6, 6F7, 12A5, 12A7, 36, 38, 39, 55, 57, 58, 75, 77, 78, 79, 85, 89, etc.	.25

JFD "GLOVE FIT" TUBE SHIELDS-New ST-12 Bulb Series



A new, improved type of tube shield assembly that fits the tube "like a glove." The body of the shield is composed of two identical half shields which slightly overlap to insure complete enclosure. When the two half shields are fitted to the tube, they can easily be slipped into the base. The half shields are then pressed together near the top and the cap snapped on. The shoulder of the bulb acts as a pivot and the halves are forced outward at the bottom, tightening the shield in the base. This insures positive contact between shield and base, and also tends to hold tube tightly in socket. Especially desirable for auto and portable radios. Caps, bodies and bases can be used interchangeably.

For Tubes with Short ST-12 Body

Assembly consists of four pieces as illustrated at left: two identical half-shields each $3\frac{1}{2}$ " long, together with high cap for tubes with top grid, plus base for wafer sockets, having slotted mounting holes $1\frac{1}{2}$ to $1\frac{3}{4}$ " center to center. Suitable for following tubes:

1A4	2A6	6A8G	6K5G	85
1A6	2A7	6B8G	6K7G	6Q7G
1B4	2B7	6D8G	6L7G	6R7G
1C6	6A7	6F5G	55	6S7G
1D5G	6B7	6J7G	75	6T7G
1E5G	6F7	38	77	etc.
1F6	15	39	78	
1F7G	36	44	79	

No. 3554—Four-piece tube shield assembly as described.....List Price \$0.55



For Tubes with Long ST-12 Body

Assembly comprises four sections as illustrated at right: two identical half-shields each $3\frac{1}{2}$ " long, together with one low cap, for tubes requiring no top grip cap shielding, plus one base for wafer type sockets having $1\frac{1}{2}$ to $1\frac{3}{4}$ " mounting centers. Suitable for following type tubes:

1E7G	6J5G	6C6
1H4G	6K6G	6D6
1H6G	6L5G	57
1J6G	6X5G	58
6H6G	25Z6G	etc.

No. 3555—Four-piece tube shield assembly as described.....List Price \$0.55

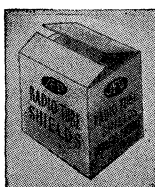


RADIO TUBE DEALERS' & SERVICEMEN'S PACKAGE

100 Complete Tube Shield Assemblies and 40 Extra Accessories

An essential for every radio tube dealer and serviceman! This package contains 100 fast-moving assorted tube shields and 40 accessories. A convenient way of carrying a complete tube shield stock to meet the ever-growing demand!

No. TS 100—Servicemen's assortment of one hundred tube shields and accessories.....List Price \$25.00

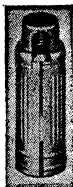




Tube Shields

JFD "T-9 SERIES" TUBE SHIELDS FOR T-9 BULB BATTERY TUBES (having .050 amp fil.)

FOUR-PIECE "HIGH COVER" ASSEMBLY

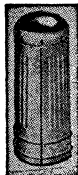


For the new Bantam type battery tubes, where complete shielding including grid cap, is required. Shield fits snugly over base of tube, and grounding lug automatically grounds shield to ground pin of tube. Overall length of shield with grid cap cover is $3\frac{3}{4}$ ". For use with following tubes:

1A7G 1H5G 1N5GT 1P5GT
1A7GT 1H5GT 1P5G ETC.

No. 3545—complete assembly (illustrated).
List Price \$0.25

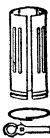
FOUR-PIECE "LOW COVER" ASSEMBLY



For new battery type bantam tubes having "T-9" bulb, same as above, except has low cover. Overall length with cover, $3\frac{1}{4}$ ". Can be used with battery type bantam tubes having grid cap, where shielding of cap is not necessary (1A7G, 1H5G, 1N5GT, etc.) or with battery tubes having no top cap, such as 1E4G, 1G4G, etc.

No. 3544-N—complete assembly (illustrated).
List Price \$0.25

THREE-PIECE "COVERLESS" ASSEMBLY



For Battery type bantam "T-9" tubes, without grid cap. Length of shield is $2\frac{3}{4}$ ". Fits snugly around base of tube. Grounding clip is provided, to permit connecting shield to ground pin of tube as illustrated. Clamping ring included affords

tight fit for severe vibration service. Suitable for following tubes:

1E4G 1G4GT ETC.
1G4G 1G4GT/G

No. 3550 complete assembly (illustrated).
List Price \$0.20

FOR GT/G AND GT TUBES

ONE-PIECE TUBE SHIELD For Metal Base Tubes



One-piece tube shield for "T-9" GT and GT/G tubes having METAL BASE. Shield fits snugly around base, automatically grounding. Overall length of shield $2\frac{3}{4}$ ". Can be used with following tubes:

1A7GT 6J7GT 12J7GT
1H5GT 6K7GT 12Q7GT
6C5GT/G 6Q7GT ETC.
6H6GT/G 12K7GT

No. 3551—Tube ShieldList Price \$0.13

THREE-PIECE ASSEMBLY For Bakelite Base Tubes



For GT and GT/G tubes with "T-9" bulbs, having BAKELITE BASE. Overall length of shield $2\frac{3}{4}$ ". Shield fits snugly around base of tube and additional tightness is secured by means of clamping ring. Grounding clip automatically connects shield to ground pin of tube. For use with:

1A5GT 6H4GT 6B6GT/G
1C5GT 6J5GT/G 12F5GT
1D8GT 6K5GT 25A6GT/G
1G4GT/G 6K6GT/G ETC.
6F5GT 6SA7GT/G

No. 3552—Complete assembly.
List Price \$0.20

ONE-PIECE TUBE SHIELD FOR LOKTAL TUBES



One piece tube shield, for all Loktal Tubes. Tube shield fits tightly around tube and grounds to metal base which is connected internally to ground pin. Length of shield $2\frac{1}{4}$ ". For use with following tubes:

1LA4 1LN5 7B5
1LA6 7A4 7B6
1LH4 7A5 7C5
ETC.

No. 3553—One-piece shield.
List Price \$0.13

MINIATURE TUBE SHIELDS



New two-piece shield for all miniature size tubes. Permits easy installation. Overall length $1\frac{1}{4}$ " high. Can be used with all miniature tubes.

No. 3565.....List Price \$0.25

JFD "SINGLE SHELL SERIES" TUBE SHIELDS

FOR GT/G — GT LOKTAL TUBES HAVING METAL BASES

Open Top Shields

Attractive new one-piece shields. Vertical grooves provide flexible positive fit. Shield automatically grounds to metal base of tube, eliminating any necessity for additional connector. Overall length $2\frac{1}{8}$ ". Has open top for grid cap lead. Suitable for following tubes:



1A7GT 6Q7GT 12K7GT
6K7GT 12Q7GT 12J7GT
1H5GT 6J7GT ETC.
No. 3546—Small base open top shield.
For GT/G tubes with 1.165" diameter base.
List Price \$0.12

No. 3548—Large base open top shield.
For GT tubes with 1.218" diameter base.
List Price \$0.12

Closed Top Shields

New one-piece shield, similar to shield above. Shield fits tightly over metal base of tube, thus automatically grounding and eliminating need for additional connector. Overall length $2\frac{1}{8}$ ". Has closed top. Suitable for following tubes:



6C5GT/G 7A8 7A5 1LN5
1LA6 6H6GT/G 7B5 7B4
7A4 1LB4 1LA4 ETC.
No. 3547—Small base closed top shield.
For GT/G and Loktal tubes with 1.165" diameter base.
List Price \$0.12

No. 3549—Large base closed top shield.
For GT tubes with 1.218 diameter base.
List Price \$0.12

ACCESSORIES FOR JFD TUBE SHIELDS



No. 3556



No. 3557

No. 3556—Grid Cap Cover, fits No. 3545 and 3544 tube shields listed above, as well as No. 3554 and No. 3555 tube shields. Height $\frac{7}{8}$ ". Notched.

List Price \$0.08

No. 3557—Grid Cap Cover same as above, except has clearance hole in top for Grid Cap Clip.

List Price \$0.08



No. 3558



No. 3559

No. 3558—Low Cap, for tubes without grid cap, or where shielding of grid cap is not considered necessary. Height $\frac{3}{4}$ ". Hole in top, ID $\frac{7}{8}$ ".

List Price \$0.06

No. 3559—Clamping Ring for any above type "T-9" tube shield.

List Price \$0.04



No. 3560



No. 3561



No. 3562

No. 3560—Ground Clip Base, for above type "T-9" tube shields. Has slotted holes for mounting on wafer sockets with $1\frac{1}{2}$ " to $1\frac{3}{4}$ " mounting centers.

List Price \$0.10

No. 3561—Single Ground clip for wafer type sockets, with $1\frac{1}{2}$ " mounting centers.

List Price \$0.05

No. 3562—Ground Clip for sockets with $1\frac{1}{8}$ " mounting centers.

List Price \$0.06



No. 3563



No. 3564

No. 3563—Base for all "T-9" series tube shields listed above. For sockets with mounting centers of $1\frac{1}{2}$ " to $1\frac{3}{4}$ ".

List Price \$0.10

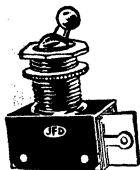
No. 3564—Grounding clip, fits over octal key and ground pin of bakelite base octal tubes, and makes contact with tube shield.

List Price \$0.05



Switches and Radio Essentials

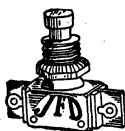
JFD TOGGLE SWITCHES



Popular switches for radio construction and replacement, for controlling small motors and appliances, etc. Made especially for JFD by H&H in a nickel plated or Statuary bronze finish. Rated at 3 amps. at 125 v., these switches are Underwriter approved. Solder connections are heavy, will not break off.

No.	Description	Shank	List Price
11-1	S.P.S.T.	1/2"	\$0.55
11-2	S.P.S.T.	1/2"	.60
11-3	S.P.D.T.	1/2"	.75
11-4	S.P.D.T.	1/2"	.80
11-5	D.P.S.T.	1/2"	1.10
11-6	D.P.S.T.	1/2"	1.20
11-7	D.P.D.T.	1/2"	1.20
11-8	D.P.D.T.	1"	1.30

JFD PUSH BUTTON SWITCH



Employed on many analyzers and testers, this two circuit slow make and quick break momentary contact switch is made for JFD by H&H. One circuit is cut off while the other is normally on. Circuits may be reversed by merely pushing button. Shaft 5/8" long. U. L. Approved

No.	Description	List Price
12-1	Switch	\$0.85
12-2	W. Red Plastic But.	1.12
12-3	W. Black Plastic But.	1.12

JFD EXTRA HEAVY DUTY POWER SWITCH



Rated 10 amps. 125 v., 3 types, with neutral position in center. Size 2" x 1" x 1 1/2" sleeve 3/4" dia. Made specifically for use in projectors, motors, amplifiers, transmitters, and movie equipment where heavy currents are used. Made for JFD by H&H. U. L. Approved

No.	Description	List Price
13-1	D.P.D.T.	\$5.47
13-2	3.P.D.T.	8.07
13-3	4.P.D.T.	10.93

JFD HEAVY DUTY POWER SWITCH



Made by H&H for JFD. Adaptable as safety switch for transformers, high frequency work, etc., available in toggle or push button types. This D.P.S.T. power switch has a capacity of 12 amps. at 125 volts. U. L. Approved

No.	Description	List Price
14-1	Toggle Type	\$1.19
14-2	Push button type	1.83

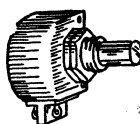
JFD SNAP SWITCHES



Used as a tone control, phono switch, circuit switch, etc., in many of the new sets. 1/2" wide — 1 1/2" between center mounting holes. Cadmium plated steel housing; Bakelite buttons. Contacts and terminals are silver plated. U. L. Approved

No.	Description	List Price
17-1	S.P.S.T.	\$0.26
17-2	S.P.D.T.	.33
17-3	D.P.S.T.	.38
17-4	D.P.D.T.	.49

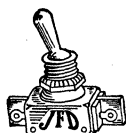
JFD ROTARY SWITCHES



Underwriters approved, this well constructed rotary switch is especially made for replacements, or in original sets. Rated at 3 amps. 125 volts. Made for JFD by H&H. 1 1/2" long shaft. Heavy solder contacts.

No.	Description	Shank	List Price
16-1	S.P.S.T.	3/8"	\$0.60
16-2	S.P.S.T.	1"	.70
16-3	S.P.D.T.	3/8"	.80
16-4	S.P.D.T.	1"	.95
16-5	D.P.S.T.	3/8"	1.20
16-6	D.P.S.T.	1"	1.35
16-7	D.P.D.T.	3/8"	1.35
16-8	D.P.D.T.	1"	1.50

JFD BAT HANDLE TOGGLE SWITCHES

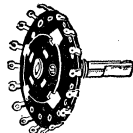


This tear-drop style switch dresses up any panel or instrument board. Nickel plated. Heavy solder connections. 1/2" shank. Made for JFD by H&H. U. L. Approved

No.	Description	Shank	List Price
15-1	S.P.S.T.	1/2"	\$0.60
15-2	S.P.D.T.	1/2"	.75
15-3	D.P.S.T.	1/2"	1.10
15-4	D.P.D.T.	1/2"	1.20

Toggle Switch On-Off Plate No. 18-1.....List \$0.04

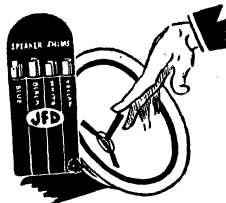
CIRCUIT SELECTOR SWITCHES



For multiple switch applications; testers, analyzers, etc. Single hole mounting. 3/8", flat end shaft, length 1 1/2". Thread length. 3/8".

No.	Description	Shank	List Price
ST131	S.P.S.T.	1 1/2"	\$0.75
ST132	S.P.D.T.	1 1/2"	.75
ST133	D.P.S.T.	1 1/2"	.75
ST134	D.P.D.T.	1 1/2"	.75
ST135	3 P.S.T.	1 1/2"	.90
ST136	3 P.D.T.	1 1/2"	1.00
ST137	4 P.S.T.	1 1/2"	1.00
ST138	4 P.D.T.	1 1/2"	1.20
ST139	5 P.S.T.	2"	1.15
ST140	5 P.D.T.	2"	1.35
ST141	6 P.S.T.	2"	1.25
ST142	6 P.D.T.	2"	1.50

JFD PLASTIC SPEAKER SHIMS



Indispensible to every serviceman for the rapid and accurate adjustment of any type dynamic speaker. Made of a very tough and flexible plastic. Five sizes in an attractive, silver-lettered, partitioned snap case.

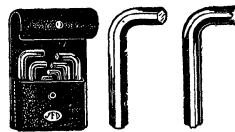
No. ST1806—Set of 20 color coded shims in kit, complete. List Price\$0.60

JFD SPRING STEEL SPEAKER SHIMS

For quick, precise adjustment of any type dynamic speaker. Made of highest grade, extremely flexible spring steel. Four sizes in an attractive, silver-lettered, partitioned snap case.

No. ST1807—Set of 16 color coded shims, complete. List Price\$0.65

JFD HEXAGON AND BRISTO KEY WRENCHES



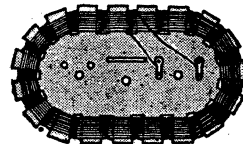
HEX SOCKET SPINE SOCKET

A "must" in every serviceman's tool kit. Used on knobs, dials, motors, pulleys, etc. Only toughest hardened steel is used in both the Hex and Bristo Wrench.

HEX KEY WRENCHES
No. Description
9-1—Kit of 6 Hex Key Wrenches for No. 4 to 1/4" Set Screws and No. 2 to 8 Cap Screws in Leatherette Case. List \$0.50
9-2—Env. 4 Hex Key Wrenches for 1/4" to 7/16" Set Screws and No. 8 to 5/16" Cap Screws.....List \$0.40
9-3—Env. 5 Hex Key Wrenches for No. 4 to 1/4" Set Screws and No. 2 to 8 Cap Screws.....List \$0.40
9-4—No. 4 Set Screw Wrench. List \$0.10
9-5—No. 5 Set Screw Wrench. List \$0.10
9-6—No. 6 Set Screw Wrench. List \$0.10
9-7—No. 8 Set Screw Wrench. No. 4 Cap Screw.....List \$0.10
9-8—No. 10 Set Screw, No. 5-6 Cap Screws.....List \$0.10
9-9—1/4" Set Screw, No. 8 Cap Screw.....List \$0.10
9-10—5/16" Set Screw, No. 8 Cap Screw.....List \$0.10
9-11—3/8" Set Screw, No. 1/4" Cap Screw.....List \$0.10
9-12—7/16" Set Screw, No. 5/16" Cap Screw.....List \$0.10

BRISTO KEY WRENCHES
No. Description
10-1—Kit of 6 Bristo Key Wrenches for No. 4 to 1/4" Set Screws and No. 2 to No. 8 Cap Screws in Leather-

JFD ANTENNA LOOPS



Ideal for battery and midget sets or portables. Replaces an Antenna Coil; gives satisfactory pickup and excellent selectivity. Inductance slightly higher than necessary, permitting removal of turns for adjustment.

No. List
21-1 4" x 5 1/2"\$1.10
21-2 4 1/2" x 7"1.10
21-3 5 1/2" x 8"1.10
21-4 6" x 8 5/8"1.10
21-5 6 1/2" x 9 3/4"1.10
Same as above but includes PRIMARY WINDING permitting use of outdoor antenna in remote areas for better sensitivity.

No. List
21-10 4" x 5 1/2"\$1.25
21-11 4 1/2" x 7"1.25
21-12 5 1/2" x 8"1.25
21-13 6" x 8 5/8"1.25
21-14 6 1/2" x 9 3/4"1.25
New type loop construction permits mounting inside radio. Used in newest type portable and midget radios.

No. List
21-20 Box loop antenna, 3 1/4" x 5"\$1.25
21-21 Box loop antenna, 4 1/4" x 6 1/4"1.25



JFD Terminal Strips

53-1 53-2

53-3 53-4

53-5 53-6

53-7 53-8

53-9 53-10

53-11 53-12

53-13 53-14

53-15 53-16

53-17 53-18

53-19 53-20

53-21 53-22

53-23 53-24

53-25 53-26

53-27 53-28

53-29 53-30

53-31 53-32

53-33 53-34

53-35 53-36

53-37 53-38

53-39 53-40

53-41 53-42

53-43 53-44

53-45 53-46

53-47 53-48

53-49 53-50

53-51 53-52

53-53 53-54

53-55 53-56

53-57 53-58

53-59 53-60

53-61 53-62

53-63 53-64

53-65 53-66

53-67 53-68

53-69 53-70

53-71 53-72

53-73 53-74

53-75 53-76

53-77 53-78

53-79 53-80

53-81 53-82

53-83 53-84

53-85 53-86

53-87 53-88

53-89 53-90

53-91 53-92

53-93 53-94

53-95 53-96

53-97 53-98

53-99 53-100

53-101 53-102

53-103 53-104

53-105 53-106

53-107 53-108

53-109 53-110

53-111 53-112

53-113 53-114

53-115 53-116

53-117 53-118

53-119 53-120

53-121 53-122

53-123 53-124

53-125 53-126

53-127 53-128

53-129 53-130

53-131 53-132

53-133 53-134

53-135 53-136

53-137 53-138

53-139 53-140

53-141 53-142

53-143 53-144

53-145 53-146

53-147 53-148

53-149 53-150

53-151 53-152

53-153 53-154

53-155 53-156

53-157 53-158

53-159 53-160

53-161 53-162

53-163 53-164

53-165 53-166

53-167 53-168

53-169 53-170

53-171 53-172

53-173 53-174

53-175 53-176

53-177 53-178

53-179 53-180

53-181 53-182

53-183 53-184

53-185 53-186

53-187 53-188

53-189 53-190

53-191 53-192

53-193 53-194

53-195 53-196

53-197 53-198

53-199 53-200

53-201 53-202

53-203 53-204

53-205 53-206

53-207 53-208

53-209 53-210

53-211 53-212

53-213 53-214

53-215 53-216

53-217 53-218

53-219 53-220

53-221 53-222

53-223 53-224

53-225 53-226

53-227 53-228

53-229 53-230

53-231 53-232

53-233 53-234

53-235 53-236

53-237 53-238

53-239 53-240

53-241 53-242

53-243 53-244

53-245 53-246

53-247 53-248

53-249 53-250

53-251 53-252

53-253 53-254

53-255 53-256

53-257 53-258

53-259 53-260

53-261 53-262

53-263 53-264

53-265 53-266



Insulated Test Tools

JFD INSULATED SCREW-DRIVER



Made of $\frac{1}{4}$ " rod—sturdy, durable bone fibre. No metal parts. Perfect for neutralizing and adjusting radio sets, coils, condensers, etc. Ends can be reground when necessary. 7 inches long.

No. 5-50.....List Price \$0.40

JFD INSULATED SCREW-DRIVER AND HEX WRENCH



Durable bone fibre combination insulated screw-driver and hex wrench. Screw adjustment permits screw-driver to be extended from 7" to 13".

No. 5-51.....List Price \$0.75

JFD ALLIGATOR WRENCH AND SCREW-DRIVER



Sturdy, tough $\frac{7}{8}$ " bone fibre. Combination strong metal wrench and metal screw-driver tip.

No. 5-52.....List Price \$0.50

JFD ALIGNING SCREW-DRIVER



Metal tip screw driver made of tough bone fibre. $\frac{1}{4}$ " diameter x 6" long, completely insulated.

No. 5-53.....List Price \$0.40

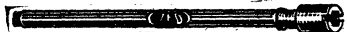
JFD ALIGNMENT TOOL FOR PHILCO RECEIVERS



Air Trimmer condensers on all model sets can be easily neutralized with this specially designed metal clip. Other end has screw-driver with metal nib. Made of $\frac{7}{8}$ " bone fibre.

No. 5-54.....List Price \$0.60

JFD WRENCH AND SCREW-DRIVER



One end has $\frac{1}{4}$ " metal hex wrench; other end has metal screw-driver nib made of $\frac{7}{8}$ " bone fibre.

No. 5-55.....List Price \$0.75

JFD INSULATED ALIGNING WRENCH



Made of tough bone fibre. Hexed its full length inside, so that end of wrench can be cut off when necessary, and neutralizing wrench is ready for more use.

No. 5-56 6" long ($\frac{1}{4}$ " hex) $\frac{3}{8}$ " dia. List Price \$0.25

No. 5-57 8" long ($\frac{1}{4}$ " hex) $\frac{3}{8}$ " dia. List Price \$0.30

JFD WRENCH ALIGNMENT TOOL



Sturdy bone fibre with $\frac{1}{4}$ " metal hex wrench on one end and $\frac{5}{16}$ " metal hex wrench on the other end.

No. 5-58.....List Price \$1.25

JFD ALIGNMENT WRENCH FOR RCA, PHILCO, etc.



Ideal for neutralizing and adjusting air trimmers of all models of Philco, Victor, and RCA. One end has $\frac{5}{16}$ " metal hex wrench; other end has an especially shaped metal hook for adjusting trimmers. Durable bone fibre.

No. 5-60.....List Price \$1.50

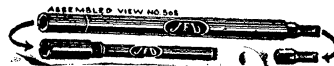
JFD "4-In-1" ALIGNMENT TOOL



Contains four handy tools— $\frac{1}{4}$ " hex wrench with key slot on one end, $\frac{5}{16}$ " hex wrench on other end, screw-driver with metal nib comprises insert. Sturdy bone fibre.

No. 5-61.....List Price \$1.00

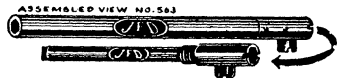
JFD "5-In-1" ALIGNMENT TOOL



Contains five handy neutralizing tools— $\frac{1}{4}$ " hex wrench with key slot, $\frac{5}{16}$ " hex wrench, screw-driver with metal nib insert and heavy metal screw-driver nib on one end. Durable bone fibre.

No. 5-62.....List Price \$1.35

JFD ALL-PURPOSE TOOL



Made of tough bone fibre. Combination tool contains $\frac{1}{4}$ " hex wrench with key slot, $\frac{5}{16}$ " hex wrench, $\frac{1}{4}$ " metal hex side wrench with key slot, inserted screw-driver with metal nib.

No. 5-63.....List Price \$1.35

JFD BALANCING TOOL



No need to remove set from cabinet when using this tool. Neutralizing and balancing can be done easily and quickly in even the closest quarters.

No. 5-64.....List Price \$0.50

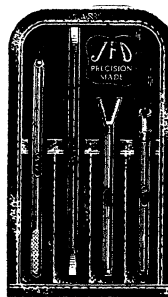
JFD WRENCH AND ALLIGATOR ALIGNING TOOL



Made of $\frac{7}{8}$ " bone fibre—alligator wrench on one end, $\frac{1}{4}$ " slotted metal hex wrench on other end.

No. 5-65.....List Price \$0.50

JFD POCKET ALIGNING KIT

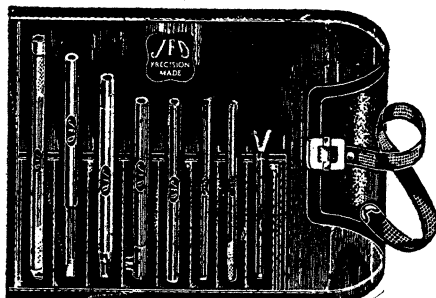


Here is a handy aligning kit that will fill most servicemen's requirements! Kit contains:

- 1 No. 5-53 Aligning Screw-driver
- 1 No. 5-50 Insulated Screw-driver
- 1 No. 5-52 Alligator Wrench and Screw-driver
- 1 No. 5-55 Wrench and Screw-driver
- 1 Leatherette Case

No. 5-75.....List Price \$3.00

JFD JUMBO ALIGNING KIT



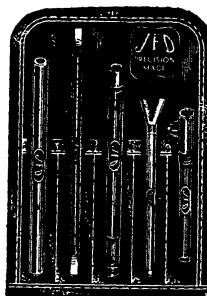
Here is a single kit that will take care of practically every aligning tool need! These eight tools have 24 different usable ends. The kit contains:

- 1 No. 5-51 Tool
- 1 No. 5-52 Tool
- 1 No. 5-53 Tool
- 1 No. 5-54 Tool
- 1 No. 5-56 Tool
- 1 No. 5-57 Tool
- 1 No. 5-60 Tool
- 1 No. 5-62 Tool
- 1 No. 5-63 Tool

1 Roll-Type Leatherette Case

No. 5-77.....List Price \$8.75

JFD ALL-PURPOSE ALIGNING KIT



Here is a handy, compact kit containing five JFD sturdy bone fibre aligning tools.

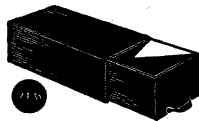
The kit contains:

- 1 No. 5-50 Insulated Screw-driver
- 1 No. 5-52 Alligator Wrench and Screw-driver
- 1 No. 5-56 Aligning Wrench
- 1 No. 5-58 Metal Wrench
- 1 No. 5-64 Balancing Tool
- 1 Leatherette Case

No. 5-76.....List Price \$4.25

JFD ASSORTED RADIO PRODUCTS

JFD DURABLE STOCK CABINETS



For parts, hardware, etc., with sliding drawer. Sturdier, heavier metal than average.
No. 25-1List \$2.00



JFD RADIO CABINET SPEAKER GRILLE CLOTH

Highest quality. Blends with any shade cabinet.

No.	Size, in.	List	No.	Size, in.	List
48-1	18x20	\$1.00	48-7	8x8	\$0.21
48-2	9x18	.53	48-8	9½x10	.26
48-3	12x12	.53	48-9	6x6	.21
48-4	14x18	.63	48-10	9x12	.40
48-5	24x18	.74	48-11	Any length,	
48-6	18x18	.58		per yard	4.00

Also comes in special light color for plaskon and ivory cabinets. Specify "light" when desired.

JFD PHONO-TURNTABLE

Rubber-Replacement DRIVES



Prevent slipping, increase efficiency by replacing worn rubber drives with these exact duplicates of popular friction-type phono turntable drives.

No.	Description	List
30-1	For Alliance Model and Motorola.	\$0.25
30-1B	Bag of 2 Number 30-1 Drives....	.40
30-2	For Detrola Models .....	.40
30-3	For General Electric Models.....	.15
30-3B	Bag of 3 Number 30-3 Drives....	.40
30-4	For General Industries Rx-Lx Motors .....	.25
30-4B	Bag of 2 Number 30-4 Drives....	.40
30-5	For Philco, RCA, Etc. ....	.15
30-5B	Bag of 3 Number 30-5 Drives....	.40
30-6	For RCA .....	.15
30-6B	Bag of 3 Number 30-6 Drives....	.40
30-7	For Webster Model 56.....	.25
30-7B	Bag of 2 Number 30-7 Drives....	.40

JFD PHONO TURNTABLE SPRINGS



Assortments of the most popular type phono-turntable springs—in great demand by servicemen. Assortments contain springs used by RCA, Philco, Seeburg, New Products, Oak, Zenith, etc. Two assortments, one of smaller size springs and the other of larger sizes.

No.	Description	List
34-1	Envelope 10 small size phono springs	\$0.40
34-3	Envelope 8 larger size phono springs .....	.40

JFD PHONOGRAPH NEEDLE AND STYLUS SET SCREWS



Machined replacement set screws for pick-up arms and recording heads. For all popular types.

No.	Description	List
31-1	10 Assorted Stylus Screws	\$1.51
31-1B	Bag of 7 Assorted Screws	1.06
31-1C	20 Bags No. 31-1B	21.20
31-2	100 Assorted Stylus Screws	13.95
31-3	For Astatic Number 3207 and Number 3205; Stromberg-Carlson SD-64 and SD 149; Universal No. 3207; Webster No. 26A2108 .....	.17
31-4	For Astatic No. 3258; RCA No. 37045; Webster Electric No. P9564-1.....	.17
31-5	For Audex, D-32 .....	.17
31-6	For RCA Nos. 33974, 3811, 33529, 31160, 12539 .....	.17
31-7	For RCA No. 34432 .....	.17
31-8	For RCA, Long 1 inch Type.....	.17
31-9	For Rek-O-Kut Recorder Cutter No. MG625, and No. 8-S; Webster Co. No. 26A2142 .....	.17
31-10	For Shure Bros. No. 30-76 .....	.17
31-11	For Shure Bros. No. 30-132 .....	.17
31-12	For Webster Electric Co. P4819-2....	.17

JFD RADIO SPAGHETTI TUBING

(All in 30" Lengths)



Highest grade, flexible spaghetti for radio-television work. Average dielectric strength—5,000 volts. Colors: Black, Brown, Red, Green, Yellow.

No.	Size	List
37-0	No. 20 Fit 20 wire	\$0.15
37-2	No. 18 Fit 18 wire .....	.15
37-6	No. 14 Fit 14 wire .....	.15
37-8	No. 12 Fit 12 wire .....	.15
37-9	1/8" I.D. ....	.32
37-10	3/16" I.D. ....	.44
37-11	1/4" I.D. ....	.50
37-12	3/8" I.D. (Resist. Types) .....	.69
37-13	7/16" I.D. ....	.94
37-14	1/2" I.D.	1.15

JFD RADIO SPAGHETTI ON SPOOLS



(5000 Volt Dielectric Strength)
Highest grade varnished tubing put on spools of 20-foot length. Will fit wire from No. 12 to No. 18. Colors: Black, Red, Yellow, Green and Blue.

No. 37-20	20-ft. Spool	List \$1.25
-----------	--------------------	-------------

JFD ASSORTED SATURATED SLEEVING KIT



Assortment of 7½" lengths of saturated sleeving. 26 lengths to the kit. Sizes include from No. 17 wire to ¾" I.D.

No. 50-1	Kit of 26 lengths.....	List \$0.65
----------	------------------------	-------------

JFD UNBREAKABLE PLASTIC JARS FOR HARDWARE AND PARTS



Made of clear, unbreakable plastic. Wide-mouthed, the perfect storeplace for small radio parts, screws, nuts, washers, etc.

No.	Description	List
43-2	2 ounce plastic jar	\$0.30
43-4	4 ounce plastic jar .....	.35
43-8	8 ounce plastic jar .....	.50

FOR AUTO RADIO CONNECTORS

4004

Fuse Holder

Quick Changing Fuse Holder. Principally used on auto radio sets. Takes standard 1¼" fuse. With two fibre bushings and strong spring contact. Steel, cadmium plated.

List \$0.20

4001

Jumbo Fuse Holder

For new type jumbo fuses. Overall size of fuse holder 2½" inches long by ½ inch diameter

List \$0.25

2060—Auto Fuse Holder Insulator Sleeve

Used on inside of above fuse connector, insulates fuse from casing.

List, per hundred \$1.25

4002—Instant Antenna Connector

For quick, easy connection of auto radio antennas, and other applications where rapid, dependable shielded single conductor connection is required. Made in two pieces with bayonet lock. Inside contact is made with strong spring and two fibre bushings. Steel cadmium plated.

List \$0.15

ANTENNA LEAD CABLE FITTINGS

3018FT—Set plug-in for

Motorola lead-in.



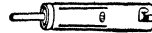
List, \$0.12

3017FT—Set plug-

in for Motorola

with adapter for

standard lead-in.



List \$0.33

NEW! ADAPTER SHELL

Converts any Motorola (pin type) plug to Philco (bayonet type) plug. There's a real need for these. Every serviceman should stock 100 at a time

No. 4006.....List, ea. \$0.11

4003—Male End of Antenna Connector

This is male end of 4002, attaches to lead-in. Complete with fibre bushing.



List, ea. \$0.10

4005—Fibre Contact Bushing Only

For 4002, 4004 connectors.

List, per hundred.....\$3.50

JFD EYELET AND CLAMP ASSORTMENT



Make your own belts, bands and cables — Increase Your Profits! The same eyelets and clamps as used in our ready-made belts, bands, and cables.

No.	Description	List
46-1	60 assorted pieces	\$0.40

JFD ASSORTED RADIO PRODUCTS

JFD RADIO AND PHONO RUBBER DRIVES



Made especially for RCA, Stewart-Warner, Atwater Kent, Emerson, Olsen, Kennedy, etc. Finest grade rubber drives.

No.	Description	List
36-1	Assortment of 5 small dial drives	\$0.40
36-2	Display 20 envelopes 36-1	8.00
36-3	Assortment of 5 large dial drives	.40
36-4	Display of 20 envelopes 36-3	8.00
36-5	Assortment of 10 dial drives	.80
36-6	Display 24 envelopes of 36-5	19.20
36-7	Box of 25 assorted drives	1.50
36-8	Box of 100 assorted drives	6.00
36-11	AK small, part number 1568L	.10
36-12	AK large for gear part No. 17961	.10
36-13	Phono drive for Detrola	.40
36-14	Phono drive for Alliance Model 80 and Motorola	.25
36-15	Atwater Kent Part No. 27383, for models 465, 655Q, 768Q, 978Q	.10
36-16	Large Atwater Kent for part No. 27332 for models 465Q, 655Q, 768Q, 978Q	.10
36-17	Small AK, for part No. 27332	.40
36-18	Emerson-Majestic grooved rubber fits 3/4" shaft	.10
36-19	Phono drive for General Electric	.15
36-20	Phono drive for General Industries RX-LX Motors	.25
36-21	Kennedy 26, 34, 36 and Wells-Gardner 2-22 series	.10
36-22	Philco part No. 42-2346	.25
36-23	Phono drive for Philco, RCA, etc.	.15
36-24	Phono drive for RCA	.15
36-25	RCA all numbers	.10
36-26	Stewart-Warner 113, 114 connector	.10
36-27	Stewart-Warner 105-120	.10
36-28	Stewart-Warner 102-104	.10
36-29	Stewart-Warner 105-120 small	.10
36-30	Stewart-Warner 126	.10
36-31	Phono drive for Webster model 56	.25

JFD RADIO KNOB SET SCREWS



To replace lost knob set screws. Assortments contain 6/32", 8/32", and 10/32" screws.

No.	Description	List
32-1	50 Assorted Set Screws	\$0.99
32-2	100 Assorted Set Screws	1.81
32-3	20 Assorted Set Screws in envel.	.40
32-4	Display of 20 envelopes 32-3	8.00

CABLE TYPE MIKE CONNECTORS



ST164



ST165

For use with single conductor microphone cable. Completely shielded, cable shield being used as return conductor. . . . Contacts securely locked together by coupling ring on female connector, preventing vibration and accidental separation. . . . For cables up to 5/16"-5/8"-27 coupling ring thread. . . . Spring cord protector. Chrome plated on brass.

No. ST164	Female type	List \$0.55
No. ST165	Male type	List .44

COIL SPRING CORD PROTECTOR

For use with above type connectors; available separately.

No. ST163	List, Ea., \$0.12/2
-----------	---------------------



PHONE PLUG ADAPTER

Plugs into standard phono jacks. . . . Screws into microphone connector No. ST164. . . . Chrome plated on brass.

No. ST166	List \$0.49
-----------	-------------



JFD GRID CAP ASSORTMENT

Various grid caps to fit all makes of tubes. For radio repairs and for construction of new equipment.

No.	Description	List
49-1	Envelope 16 caps	\$0.40
49-2	Glass tube grid caps per 1000	12.50
49-3	Metal tube grid caps per 1000	12.50

JFD SNAP BUTTON HOLE PLUGS



Just the thing to plug holes, seal adjustments, etc. Fits in any material up to 1/16" thick.

No.	Description	List
45-1	50 Assorted plugs in box	\$2.46
45-2	10 Assorted plugs in envelope	.40
Hole Diameter		
No.		List
45-4	3/8" per 10	\$0.38
45-5	1/2" per 10	.49
45-6	5/8" per 10	.55
45-7	3/4" per 10	.55
45-8	1-1/4" per 10	.88

JFD SNAP-IN TRIMOUNTS



Used in place of screws to fasten dials, built in aerials, speakers and other parts. Every serviceman should have a kit.

No.	Description	List
44-1	30 assorted trimounts	\$0.40
44-2	100 assorted trimounts	1.20
44-3	100 small, 11/64"	1.20
44-3B	Envelope 30 number 44-3	.40
44-4	100 medium 13/64"	1.20
44-4B	Envelope 30 number 44-4	.40
44-5	100 large 17/64"	1.20
44-5B	Envelope 25 number 44-5	.40
44-6	100 extra large 9/32"	1.20
44-6B	Envelope 25 number 44-6	.40
44-7	New large size 5/8" long Philco, RCA General Electric 20 trimounts 5/8"	.40
44-700	100 trimounts 5/8" long	1.92

CHASSIS TYPE CONNECTORS



Non-shorting single conductor chassis and mike connector. . . . May be grounded to chassis or insulated with fibre washers. . . . Screws into microphone connector No. ST164. . . . Chrome plated on brass. . . . Complete with hexagon mounting nut, soldering lug, metal washer and 2 fibre washers.

No. ST167	List \$0.33
-----------	-------------

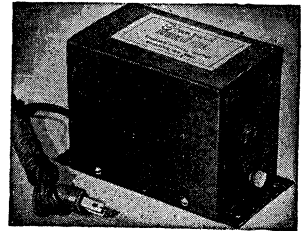
CLOSED CIRCUIT CHASSIS TYPE CONNECTOR



Prevents open circuit noise when microphone is disconnected, grounding automatically. . . . Eliminates switch when used as a phonograph input. . . . Screws into microphone connector No. ST164. . . . Complete with hexagon mounting nut, soldering lug, metal washer and two fibre washers. . . . Chrome plated on brass.

No. ST168	List \$0.44
-----------	-------------

JFD RADIO INTERFERENCE FILTER



An exceptionally effective filter for the most serious cases of radio interference from power lines and appliances. Filter plugs into electric outlet and radio set or noise-producing device plugs into receptacle on filter. For use on 110 volts AC or DC, up to 5 amps.

Thorough filtering action is obtained by use of inductance as well as capacitance. This filter is especially desirable for connection between interfering device and power line. Housed in handsome brown wrinkle-finish case, with 6 1/2 ft. cord.

No. ST1040	List, ea., \$7.50
------------	-------------------

JFD FLUORESCENT LIGHT NOISE SUPPRESSORS

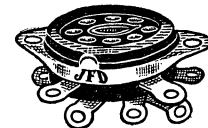


Approved by Underwriters' Laboratories

Designed to suppress noises caused by Fluorescent lamps. . . . Also efficient for correcting radio interference caused by electrically operated machines and appliances. . . . Easy to install.

No. ST1030	List \$1.50
------------	-------------

JFD BAKELITE SOCKETS



Highest quality molded bakelite sockets. High dielectric. Have plated non-corroding bronze sockets. Three grounding lugs on metal base of each socket are automatically grounded when socket is in mounting hole.

1 1/2" mounting centers. 1-3/32"

STANDARD R.M.A. CONTACT SPACINGS

No.	Prongs	List
38-4	4	\$0.13
38-5	5	.13
38-6	6	.13
38-7	7	.15
38-8	8 Octal Base	.15
38-9	8 Loktal Base	.15

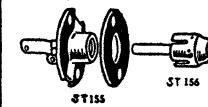
JFD WAFER SOCKETS



High grade laminated bakelite sockets with positive contacts. Standard spacings.

No.	Prongs	Mtg. Centers	List
39-4	4	1-1/2"	\$0.11
39-5	5	1-1/2"	.13
39-6	6	1-1/2"	.13
39-7S	7 Small	1-1/2"	.13
39-7L	7 Large	1-1/2"	.13
39-8S	8 Octal	1-5/16"	.13
39-8L	8 Octal	1-1/2"	.16
39-9	8 Loktal	1-5/16"	.16

JFD MIDGET JACKS & PLUGS USED ON RCA RECORDING UNITS, RECEIVERS AND AUTO SETS



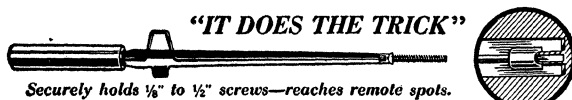
Will be found very handy and practical for connecting microphones, record players, F.M. attachments and many other uses where a small, compact jack and plug is needed.

No.	List
ST155 Midget Shielded Jack	\$0.19
ST156 Midget Pin Plug	.12



Radio Hardware and Essentials

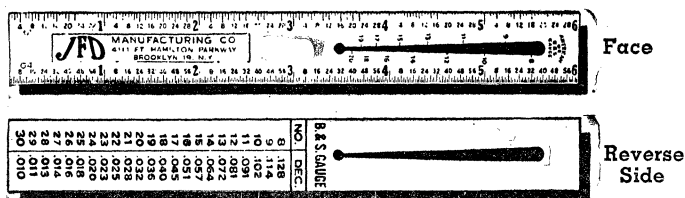
JFD TRIK-HOLD SCREW-DRIVER



This is the new screw-driver that servicemen are talking about! With the TRIK-HOLD SCREW-DRIVER, any part of the radio can readily be reached. Blade holds screw securely until it is snugly in place, then a flick of the finger releases it—and the job is done!

No. 5-69List Price \$0.45

JFD STEEL GAUGE AND RULE



Handy pocket all-purpose rules that no serviceman should be without. Made of stainless steel with $\frac{1}{32}$ " and $\frac{1}{64}$ " graduations. Has American or Browne & Sharpe wire gauge. Reverse side has gauge numbers and decimal equivalents.

No. 3-50List Price \$0.65

JFD PUSH-ON KNOB SPRINGS for all types of knobs



Any of these springs except ST9 in lots of 100.....List \$1.37

Each .02

Type ST9 in lots of 100.....List 2.74

Each .05

No.	Quan.	Type	No.	Quan.	Type
33-1	20	ST1	33-11	20	ST6
33-3	20	ST2	33-13	20	ST7
33-5	20	ST3	33-15	20	ST8
33-7	20	ST4	33-17	10	ST9
33-9	20	ST5			

Each of above kits.....List \$0.40

JFD RADIO PUSH-ON KNOB SPRING KITS



No. 33-51

20 Asst. in envelopes

List \$0.40

No. 33-53

Kit of 35 Springs

List \$0.66

No. 33-54

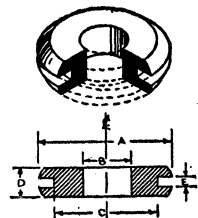
Kit of 100 Springs

List \$1.37

JFD RUBBER GROMMETS

Prevents the abrasion of wires and cables when passing through panel hole or chassis. Makes a perfect cushion for sockets, condensers, etc.

A: Outside Diameter. B: Inside Diameter. C: Panel Hole.
D: Thickness overall. E: Panel Thickness.



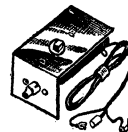
No.	A	B	C	D	E	Per C
19-1	5/8"	1/4"	13/32"	3/8"	1/16"	\$3.50
19-2	3/8"	11/64"	5/16"	1/4"	1/16"	2.50
19-3	7/16"	3/16"	5/16"	3/16"	1/16"	3.00
19-4	9/16"	9/32"	11/32"	1/4"	1/16"	3.00
19-5	5/8"	5/16"	7/16"	1/4"	1/16"	3.25
19-6	11/16"	5/16"	1/2"	1/4"	1/16"	3.50
19-7	1/2"	7/32"	3/8"	3/16"	1/16"	3.00
19-8	3/4"	7/16"	9/16"	1/4"	1/16"	3.25

List Price

No. 19-15—Bag of 15 Asstd. Grommets.....\$0.40

No. 19-50—Bag of 50 Asstd. Grommets.....1.04

JFD REPLACEMENT PHONO- RADIO SWITCH



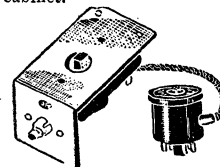
For quickly connecting Record Players, Microphones, F.M. or Television Attachments, etc., to the audio amplifier of radio receivers . . . Also replaces R.C.A. Part No. 9824A.

No. ST145.....List \$2.25

(Complete with Midget Tip Plug)

JFD PHONOGRAPH PICKUP ADAPTERS

Completely assembled and wired on a sturdy steel frame . . . easily and quickly mounted in any cabinet.



"G", "GT" METAL TUBE OCTAL BASE ADAPTER

For use with detector (2nd detector Superhet.) for audio amplifying tubes with an octal (8 prong) base without top grid cap and with basing similar to 6AC5G, 6AE5GT, 6C5, 6C8G, 6F6, 6F8G, 6G6G, 6H6, 6J5, 6K6G, 6L6G, 6N6G, 6N7, 6T7G, 6Y6G, 6Z7G, 12J5GT, 25A6, 25A7G, 25AC5GT, 25B6G.

No. ST181—Complete with Standard Plug, Jack and Wired Tube Socket Adapter.

List Price \$3.00

STANDARD GRID CAP ADAPTER

For use with tubes used as detector or amplifier such as 2A6, 2B7, 6B7, 6C6, 6D6, 6F7, 24A, 36, 39, 55, 57, 58, 75, 77, 78, 79, 85.

No. ST182—Complete with Standard Plug and JackList Price \$2.25

5-PRONG UY BASE ADAPTER

For use with 5 prong tubes used as detector or audio amplifier such as 27, 37, 49, 56, 76.

No. ST183—Complete with Standard Plug, Jack and Wired Tube Socket Adapter.

List Price \$3.00

"SINGLE-ENDED" DIODE-TRIODE BASE ADAPTER

For use with single ended "S" series tubes used as detector or amplifier with basing similar to 6SQ7, 6SR7, 12SQ7, 12SR7.

No. ST184—Complete with Standard Plug, Jack and Wired Tube Socket Adapter.

List Price \$3.00

"SINGLE-ENDED" TRIODE-PENTODE BASE ADAPTER

For use with single ended "S" series tubes used as detector or amplifier with basing similar to 6SC7, 6SF5, 6SJ7, 12SC7, 12SJ7, 12SF5.

No. ST185—Complete with Standard Plug, Jack and Wired Tube Socket Adapter.

List Price \$3.00

"G", "GT" METAL TUBE GRID CAP ADAPTER

For use with metal "G" or "GT" type tubes having top control grid cap such as 6B6G, 6B8G, 6C8G, 6F5, 6F8G, 6J7, 6J7GT, 6K5G, 6K7, 6Q7, 6Q7GT, 6R7, 6T7G, 12C8, 12F5GT, 12J5GT, 12J7GT, 12K7GT, 12Q7GT.

No. ST186—Complete with Standard Plug and JackList Price \$2.25



Radio Hardware and Essentials

JFD SPEAKER SPIDERS



A full selection of speaker spiders as originally used on 5", 6", 8", 10", 12" speakers by all leading speaker manufacturers. Made of finest and best strength tensile fibre.

Catalog No.	Outside Diameter	List Price Each
6-1	1 1/8"	\$0.15
6-2	1 1/2"	.20
6-3	1 3/4"	.25
6-4	2 1/2"	.40

JFD AUTO BODY PLUGS

To neatly conceal holes left in auto body and instrument panel when antennas, radio controls, switches, cowl aerials, spotlights, and the other accessories are removed, fits snugly and permanently in hole. Brass, chrome-plated, large flathead screw with lock washer, rubber spacer, and nut. An essential item in every serviceman's shop.



FOR 3/8" HOLES

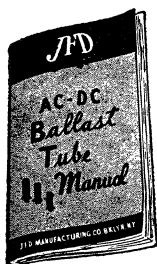
No. 2047—Serviceman's Card of 12
List \$4.20.....\$0.35 each

FOR 1/2" HOLES

No. 2050—Servicemen's Card of 12
List \$4.20.....\$0.35 each

JFD BALLAST TUBE MANUAL

FREE!



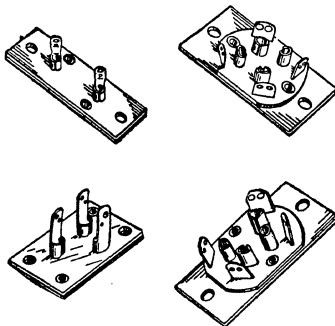
68 page Ballast Tube Manual—a treasury of information to Radio Servicemen and Dealers. It lists:

1. More than 3,000 radio ballasts.
2. AC-DC ballasts for fluorescent lights and electrical appliances.
3. Step-down ballasts, 220-110 V.

YOUR FREE COPY of this book (value — \$1.50) is now ready for you. Merely mail in to JFD factory (4117 Ft. Hamilton

Parkway, Brooklyn 19, N. Y.) 12 flaps from JFD Dial Belt envelopes; include 10¢ in stamps to cover mailing. Book is also included in JFD Belt Kits B25A, B50A, B100A. See Page on Dial Belt Kits. (Buy your JFD Belts and Belt kits from your nearest Parts Jobber).

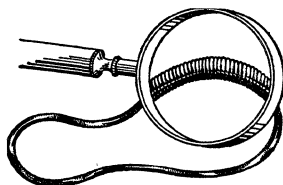
JFD SPECIAL WAFER SOCKETS



Used in battery construction and other applications. Made of fine grade Phenolic laminated materials (with or without wax impregnating). Contacts are spring metal finished in Cadmium, Silver or Hot Tin. Come in wide range of size and layout to meet any and all requirements.

No.	Prongs	List Price
62-2	2	\$0.11
62-3	3	.16
62-4	4	.20
(Used with Burgess G6B60; Willard WZ3)		
62-44	4	.20
(Used with Burgess G4B501 Willard WZ2)		

DETROLA RECORD CHANGER DRIVE SPRING AND RUBBER



Detrola part No. 50137 for Detrola Model No. 626, etc. This is the same spring used by the manufacturer in his original equipment. Elastic tension spring with core.

No. 63-1—Spring	List Price \$0.50
No. 63-2—Rubber	List Price .60

JFD COMPRESSION SPRINGS



Used for repair work on radio dials, push buttons, phonograph motors, electronic appliances, etc. Assortments contain all needed springs.

No. 55-20—Bag of 20 Small Springs.	
List Price	\$0.40
No. 55-15—Bag of 15 Large Springs.	
List Price	\$0.40

JFD VACUUM CLEANER BELTS



Made of finest grade live rubber. Here is an item that has a tremendous market. These belts can be sold to every radio customer. Carry a JFD assortment with you when making calls. Display them in your shop—it will mean profits for you.

No. 56-1—Flat Belt, 2 1/4" I.D. x 1/2" wide x 1/8" thick. Fits Premier Duplex Jr.; G.E.; AMC; Bee Vac; Eureka, G. Models; Hamilton Beach, 8, 12, 14; Kenmore, BV Types; Universal; Westinghouse. \$0.20

No. 56-2—Flat Belt, 2 3/4" I.D. x 1/2" wide x 1/8" thick. Fits Premier Duplex, G.E.; Westinghouse; Royal; Universal; Hamilton Beach; AMC, Airway; Apex; Eureka; Graybar; Kirby; Regina; Scott-Fitzer; Sweeper Vac\$0.20

No. 56-3—Flat Belt, 3 1/2" I.D. x 1/2" wide x 3/8" thick. Fits Airway; Apex; G.E.; Kenmore; Premier; Singer\$0.25

No. 56-4—Flat Belt, 3 3/4" I.D. x 1/2" wide x 3/8" thick, Hoover large flat type.....\$0.25

No. 56-5—Round Belt, 3" diam. x 1 1/8" thick. Fits Hoover, 25, 26, 27, 80, 103, 150, 300, 305, 450, 475; Apex, 129. \$0.25

No. 56-6—Round Belt, 3 3/4" diam. x 1 1/4" thick. Fits Hoover models, 102, 105, 541, 543, 961, N. Special.....\$0.25

No. 56-7—Round Belt, 3 3/4" diam. x 1 1/8" thick. Fits AMC; Kenmore Commander; Hoover models 60, 90, 575, 700, 725, 750, 800, 925, 930\$0.25

JFD FIBRE SHOULDER WASHERS



Finest insulating material. Ideal for use on metal panels wherever insulating washers are used.

- A: Inside Diameter
- B: Outside Diameter
- C: Thickness Overall
- D: Height of Shoulder
- E: Diameter of Shoulder

No.	A	B	C	D	E	List Price per M
57-1	.140	.375	.093	.031	.237	\$10.50
57-2	.110	.250	.062	.031	.187	8.50
57-3	.136	.250	.093	.031	.187	9.00
57-4	.136	.312	.093	.031	.187	10.00
57-5	.250	.500	.068	.028	.312	11.00
57-6	.172	.375	.093	.031	.246	9.75
57-7	.196	.375	.093	.031	.308	9.75
57-8	.375	.750	.093	.031	.500	13.00
57-9	.385	.625	.093	.031	.500	12.50

JFD Adapter Harnesses and Battery Plugs

For Portable and Farm
BATTERY OPERATED RADIO SETS

A Successful Solution

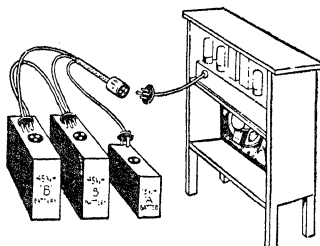
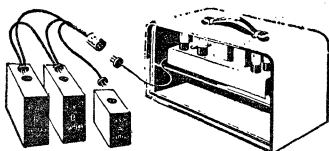
To An Urgent Problem!

More than 750,000 Harnesses Sold

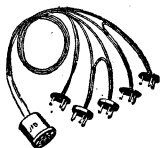
Combination "AB" Battery Packs are still difficult to obtain—but SEPARATE, standard "A" and "B" Batteries, ARE available, and are in fact now being produced for the portable and farm radio market.

In practically every case, a radio set designed to use a combination "AB" pack can now be adapted to use separate "A" and "B" batteries by means of one of the JFD ADAPTER HARNESSES listed in these pages.

Simply attach the JFD Adapter harness to the battery cable in the radio set—then attach separate "A" and "B" batteries to the plugs at the other end of the harness—that's all there is to it! No soldering—No cutting—Just plug in!



- ★ IT'S MORE ECONOMICAL to replace separate "A" or "B" batteries as required, rather than to replace an entire "AB" pack when only one section of it is exhausted.
- ★ IT'S EASIER to get separate "A" and "B" batteries. Battery manufacturers are now making them in increasing quantities, to supply the important portable and farm-radio market.
- ★ IT'S MORE PROFITABLE to battery dealers, because it simplifies the battery stock problem. Two types of "A" batteries and three types of "B" batteries take care of practically all battery radio sets, in conjunction with JFD ADAPTER HARNESSES. To do the same job with combination "AB" packs, at least 25 different types would be required.

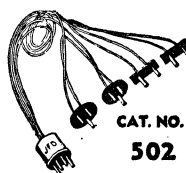


JFD "PHILCO" HARNESS with 7-prong socket

This harness has a standard 7-prong socket, to fit plug from radio set. Other end of harness has five plugs for 3-45V "B" and 2-4½V "C" batteries.

For use in replacing power pack in Philco models 37-33, 37-38, 38-33, and 38-38 with standard separate "B" and "C" batteries. This means a real saving to the user, since it permits replacement of only the individual batteries as needed instead of the entire pack. Harness is sufficiently long to allow placing batteries on floor near set, if necessary.

No. 513.....List Price ea. \$2.74



ADAPTER HARNESS

For sets Using 9V "A" & 90V "B"
With this harness you can now use separate standard "A" and "B" radio batteries in portable radio sets which employ the following "AB" packs:

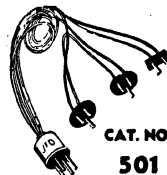
Burgess G6B60
Usalite AB-677
Zenith Z-985

This harness has standard 4-prong plug which fits receptacle on radio battery cable. At the other end of the adapter harness are two 3-prong male "B" plugs and two 2-prong male "A" plugs, for use with:
2 45V "B" bat. (Eveready 482, etc.)
2 4½V "A" bat. (Eveready 746, etc.)

No. 502.....List Price ea. \$1.64

ADAPTER HARNESSES

For Portable Radio Batteries
NO SOLDERING - NO CUTTING - JUST PLUG IN!



ADAPTER HARNESS

For Sets Using 6V "A" & 75V "B"

This harness permits use of separate standard "A" and "B" radio batteries in portable radios which use the following "AB" packs:

Burgess G4B50
General Z50B4H4
Montgomery Ward 5045
Usalite AB-670
Zenith Z-675

This harness has a 4-prong plug which fits into female receptacle on the end of the radio set cable. At the other end of the adapter harness are two 3-prong male "B" plugs and one 2-prong male "A" plug for use with:
2 45V "B" bat. (Eveready 482, etc.)
1 6V "A" bat. (Eveready 747, etc.)

No. 501.....List Price ea. \$1.37



ADAPTER HARNESS

For Sets Using 1½V "A" & 90V "B"

This adapter harness can be used with separate batteries in place of these packs:

Acme 460-15	Montgomery Ward
Acme 460-14S	(Airline) 5003
Advance 411	(Airline) 5047
Bond 0528	National Union
Bright Star 61-05	N-801
Burgess 3FA60	Philco P60D11L
Burgess 5DA60	Rayovac AB-82
Burgess 4TA60	Sears Roebuck
Burgess 17GD60	5170
Burgess 6TA60	Sears Roebuck
Burgess 2GA60	10793
Crosley CR-60	Usalite AB-665
Eveready 748	Usalite AB-666
Firestone E-15275	Western Auto
General 60A4L	D-235
General 60A2L	Willard 60A2L
General	Willard 60DL11L
60DL-11L	Winchester 0518
	Zenith Z-802

4-pin socket on harness fits plug from set. Other end of harness has two 3-pin "B" plugs and a 2-pin "A" plug for use with:
2 45V "B" bat. (Eveready 482, etc.)
1 1½V "A" bat. (Eveready 742, etc.)

No. 503.....List Price ea. \$1.37

PRICES FOR OTHER TYPES FURNISHED ON REQUEST



REPLACEMENT GUIDE

For Radio Battery Adapter Harnesses

Consult this listing for correct adapter to select when replacing a combination "A-B" battery pack with separate Individual "A and B" batteries.

Battery Pack Number	Replace with JFD Adapter Harness No.	And Use Standard Batteries "A"	"B"	SEE NOTE
ACME BATTERY CO.				
360-4FS	506	6V	2-45V	
860-41	509	1 1/2	2-45V	
460-15S	505	1 1/2	2-45V	
460-15	503	1 1/2	2-45V	
442-2	505	1 1/2	2-45V	B
460-15MS	503	1 1/2	2-45V	
480-14S	503	6V	2-45V	
225	504A	7 1/2 V	2-45V	C
ADVANCE				
411	503	1 1/2	2-45V	
41AD7	505	1 1/2	2-45V	B
BOND				
0528	503	1 1/2	2-45V	D
BRIGHT STAR				
61-05	503	1 1/2	2-45V	D
BURGESS BATTERY CO.				
6TA60	503	1 1/2 V	2-45V	
5DA60	503	1 1/2 V	2-45V	
4TA60	503	1 1/2 V	2-45V	
3FA60	503	1 1/2 V	2-45V	
4FA60	509	1 1/2 V	2-45V	
6FA60	505	1 1/2 V	2-45V	
2GA60	503	1 1/2 V	2-45V	
4GA41	505	1 1/2 V	2-45V	B
4GA42	505	1 1/2 V	2-45V	B
D4A60	508	6V	2-45V	
D5A60	504A	7 1/2 V	2-45V	C
F4A41	508	6V	2-45V	B
F4B60	506	6V	2-45V	
F5A60	504A	7 1/2 V	2-45V	C
2FA60	507	6V	2-45V	
2F4B60	508	6V	2-45V	
G4B50	501	6V	2-45V	B
G4B60	501	6V	2-45V	
G5A42	501	7 1/2 V	2-45V	C
G6B60	501	2-4 1/2 V	2-45V	
17GD60	503	1 1/2 V	2-45V	D
CROSLLEY				
CR49	505	1 1/2 V	2-45V	
CR57	508	6V	2-45V	
CR58	504A	7 1/2 V	2-45V	C-D
CR60	503	1 1/2 V	2-45V	
CR61	508	6V	2-45V	
CR67	508	6V	2-45V	
CR68	504A	7 1/2 V	2-45V	
CR69	503	1 1/2 V	2-45V	D
CR649	508	6V	2-45V	
CR658	508	6V	2-45V	E
EMERSON				
EM749	504AJ	7 1/2 V	2-45V	B-C
EVEREADY				
748	503	1 1/2 V	2-45V	D
748M	503	1 1/2 V	2-45V	D-E
FIRESTONE				
E15275	503	1 1/2 V	2-45V	
E15276	508	6V	2-45V	
GENERAL DRY BATTERIES				
60A4F4	507	6V	2-45V	
60A4FL4	507	6V	2-45V	
60A4FL1	507	6V	2-45V	E
P60A4L	509	1 1/2 V	2-45V	
60A4L	503	1 1/2 V	2-45V	
60A2L	503	1 1/2 V	2-45V	
Z50B4H4	501	6V	2-45V	B
60B4H	508	6V	2-45V	
41A4FL	505	1 1/2 V	2-45V	B
60A5D5	504A	7 1/2 V	2-45V	C
MONTGOMERY WARD (Airline)				
5001	505	1 1/2 V	2-45V	
5003	503	1 1/2 V	2-45V	
5045	501	6V	2-45V	B
5004	505	1 1/2 V	2-45V	B
5047	503	1 1/2 V	2-45V	D
MOTOROLA				
"Bike" Radio Pack	503	1 1/2 V	2-45V	
NATIONAL UNION				
N801	503	1 1/2 V	2-45V	D
N802	505	1 1/2 V	2-45V	B
N803	505	1 1/2 V	2-45V	
PHILCO				
P60A8F4	504A	7 1/2 V	2-45V	C
P841	504A	7 1/2 V	2-45V	C
P60A4L	505	1 1/2 V	2-45V	
P41A4G	505	1 1/2 V	2-45V	B
P41A4FL	505	1 1/2 V	2-45V	B
P60D11L	503	1 1/2 V	2-45V	D
P60A110	510	6V	2-45V	
P87	504A	7 1/2 V	2-45V	B-C
P89	511	1 1/2 V	6 1/2 V	A
RAYOVAC				
AB684	508	6V	2-45V	B
AB694	507	6V	2-45V	
MB49	505	1 1/2 V	2-45V	E
AB84	505	1 1/2 V	2-45V	
AB419	505	1 1/2 V	2-45V	B
AB94	505	1 1/2 V	2-45V	E
AB82	503	1 1/2 V	2-45V	
AB794	504A	7 1/2 V	2-45V	B-C
SEARS ROEBUCK (Silvertone)				
5170	503	1 1/2 V	2-45V	D
10793	503	1 1/2 V	2-45V	D
USALITE				
AB674	507	6V	2-45V	
AB675	505	1 1/2 V	2-45V	E
AB667	505	1 1/2 V	2-45V	
AB665	503	1 1/2 V	2-45V	
AB670	501	6V	2-45V	B
AB672	505	1 1/2 V	2-45V	B
AB669	505	1 1/2 V	2-45V	B
AB668	505	6V	2-45V	E
AB666	503	1 1/2 V	2-45V	D
AB671	510	6V	2-45V	
AB673	507	1 1/2 V	2-45V	
AB676	504A	7 1/2 V	2-45V	B-C
AB677	502	2-4 1/2 V	2-45V	
WESTERN AUTO				
D235	503	1 1/2 V	2-45V	D
WILLARD				
60A2L	503	1 1/2 V	2-45V	
P41A4FL	505	1 1/2 V	2-45V	B
60A4H	505	1 1/2 V	2-45V	E
60DL11L	503	1 1/2 V	2-45V	D
WINCHESTER				
0518	503	1 1/2 V	2-45V	D
ZENITH				
Z659	506	6V	2-45V	
Z9B	509	1 1/2 V	2-45V	
Z675	501	6V	2-45V	B
Z985	502	2-4 1/2 V	2-45V	
Z802	503	1 1/2 V	2-45V	D

NOTE A—This is for a candid size radio. Use of a No. 950 Eveready Flashlite Cell and No. 467 Eveready "B" battery, or equivalent, is recommended.

NOTE B—Original "B" Voltage for this set is approximately 75V. However, 90V "B" voltage can be used without difficulty.

NOTE C—No. 504-A harness is for use with one 7 1/2-volt "A" battery (and two 45-volt "B" batteries). Where no 7 1/2-volt

battery is available, use No. 504 harness which employs two 4 1/2-volt "A" batteries, to accomplish same result.

NOTE D—These packs are for 1 1/2 volt Farm Radios, not portable type sets; therefore, use of larger (standard) batteries is recommended.

NOTE E—These packs employ three separate sockets. Sets using this type of pack already have three separate battery connection leads, and require no adapter harness.



SERVICEMEN'S ESSENTIAL PARTS

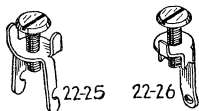
JFD COATED SLEEVING



Dielectric strength is 2,000 volts. Flexible—less expensive than regular spaghetti, replaces it in most uses. Colors: Black, Brown, Red, Green, Yellow.

No.	Description	List Price
54-0—No. 20—Fit	20 Wire.	\$0.10
54-3—No. 17—Fit	17 Wire.	.10
54-6—No. 14—Fit	14 Wire.	.12
54-8—No. 12—Fit	12 Wire.	.13
54-9— $\frac{1}{8}$ " I.D.		.19
54-10— $\frac{1}{4}$ " I.D.		.25
54-11— $\frac{1}{2}$ " I.D.		.31
54-12— $\frac{3}{4}$ " I.D.		.44
54-13— $\frac{1}{2}$ " I.D.	(Resistor Size)	.50

JFD TERMINAL LUGS AND SCREWS



These lugs are tapped with screw inserted. Just the thing for heavy duty terminal strips. No. 22-25 Lug is cadmium-plated brass; No. 22-26 Lug is hot tinned brass.

No.	List Price
No. 22-25.....	\$3.50 per C
No. 22-26.....	6.00 per C

JFD CABLE CLAMPS



No.	Description	List Price
22-22	Steel Cadmium plated. 1/2" hole, length 3/4", width 1/2". Will fit over 1/4" cable.	\$1.25
22-23	Steel cadmium plated. No. 8 hole, length 3/4", width 3/8". Will fit over 1/8" to 1/4" cable.	\$1.25
22-24	Steel Cadmium plated. No. 8 hole, length 1", width 3/8". Will fit over 1/2" cable.	\$1.50

JFD NEW "BIG 4" SERVICEMEN'S BASIC KIT!



A Great New TIMESAVER
For Radio Servicemen!
FOUR Basic Radio Service Kits in ONE Package

SPECIAL! SERVICEMEN'S COST

\$18.00
List Price \$33.35

For Radio Servicemen Starting a Repair Business...

For Established Radio Servicemen Who want to Save Time and Energy...

These 4 Popular JFD Kits have everything needed for 25% of all radio service work.

- B25A Belt Kit.** Assortment of 25 Dial Belts in Metal Container. Includes FREE 64-page JFD Servicemen's Manual, listing belts for more than 1500 set models.
- 5C25 Dial Cable & Cord Rack.** Contains 5 Metal Spools of fast-moving dial cables and cords.
- 770 Ballast Kit.** Contains five JFD Improved Aircooled AC-DC Adjustable Ballasts. Suitable for more than 95% of all ballast tube replacements.
- BP-100-MC Plug Assortment.** 100 radio battery plugs, in 25 different popular types. Sturdy Metal Container. Includes FREE Battery plug folder with technical data and schematic diagrams of all plug types.

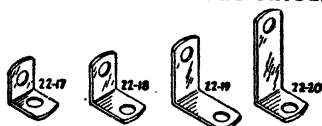
COMBINATION List Price Value, \$33.35

Model "Big 4"
Servicemen's SPECIAL Net Price

\$18.00

J.F.D. MANUFACTURING CO., 4109-4123 FT. HAMILTON PARKWAY, BROOKLYN-19, N. Y.

JFD BRASS AND STEEL ANGLES



No.	Material	Size	List Price per C
22-17	Brass N.P.	1/2" x 1/2"	\$2.50
22-18	Brass N.P.	5/8" x 5/8"	5.00
22-19	Steel H.T.	3/4" x 3/4"	2.00
22-20	Steel H.T.	5/8" x 1 1/8"	2.00

JFD TAPPED ANGLE BRACKET



Cadmium Plated Steel. Size 1/2" x 1/2", with one 8/32" tapped hole and one plain .165 hole.

No.	List Price per C
No. 22-21.....	\$4.50

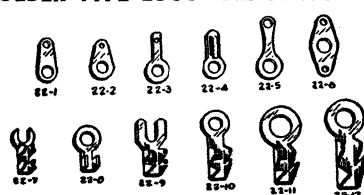
JFD EYELET TYPE SOLDER LUGS



These lugs are excellent for mounting on terminal strips. Made of Brass. No. 22-16 cadmium-plated; others are hot tinned.

No.	Length	Hole	List Price per M
22-13	5/8"	3/16" slot	\$4.50
22-14	5/8"	No. 8	10.00
22-15	1 1/4"	No. 8	7.50
22-16	1 1/8"		7.50

JFD SOLDER TYPE LUGS—BRASS HOT TINNED

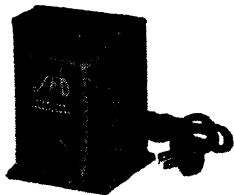


No.	Length	Hole	List Price per M
22-1	5/8"	No. 6	4.00
22-2	5/8"	No. 6	4.00
22-3	3/4"	No. 6	8.00
22-4	3/4"	No. 6	7.00
22-5	7/8"	No. 6	5.50
22-6	7/8"	No. 8	8.00
22-7	5/8"	No. 8	7.00
22-8	5/8"	No. 6	10.00
22-9	1"	No. 8	12.00
22-10	1 1/8"	1/4"	15.00
22-11	1 1/8"	1/4"	15.00
22-12	1"	1/4"	15.00



BALLASTS, TRANSFORMERS

JFD 220V.-110V. STEP-DOWN TRANSFORMERS

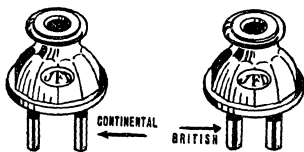


Here is a Step-Down Transformer that is just the thing for use with Radio Receivers, Phono-radio combinations, all electrical appliances and equipment such as: irons, toasters, vacuum cleaners, refrigerators, washing machines, etc., JFD Step-Down Transformers are precision-made to comply with exacting requirements. They all have Input of 200-240 volts, Output of 115 volts, and operate on cycles of 50-60 volts.

JFD 220V.-110V. STEP-DOWN TRANSFORMERS

Cat. No.	Cap. in Watts	Cycles	List Price
52-85	85	50-60	\$8.50
52-125	125	50-60	9.60
52-200	200	50-60	11.50
52-300	300	50-60	14.50
52-500	500	50-60	22.50
52-750	750	50-60	30.00
52-1000	1000	50-60	38.00

JFD Bakelite Handle Cap for Use in Foreign Countries



Comes with either Continental or British Prongs

No.	List Price
2-451—Cap with Continental type prongs	\$0.25
2-452—Cap with English type prongs..	.30

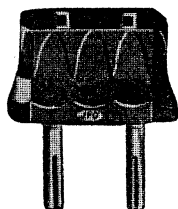
JFD FOREIGN ADAPTER

Converts American Male Plug to Continental and British Male Plugs

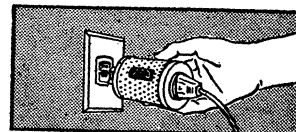
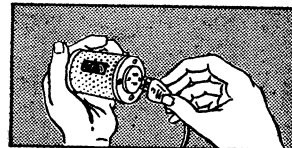
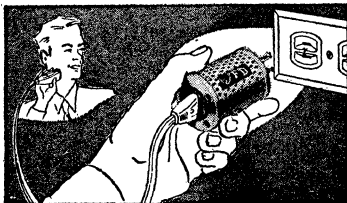
Converts Foreign receptacles into the standard American type—in a jiffy!

No. 2-449—with Continental type prongs. List Price\$0.33

No. 2-450—with British type prongs. List Price\$0.33



JFD CURRENT CONVERTER (AC to DC) for ELECTRIC RAZORS



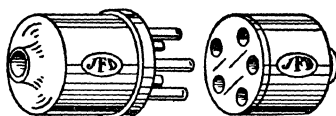
ELECTRIC SHAVERS WORK QUICKER—SMOOTHER—CHEAPER ON D-C CURRENT!

Here is an item that means quick profits! Every electric razor owner is a prospective buyer. It will pay you to display the JFD Current Converter prominently in your shop!

Just plug razor cord into the JFD Converter; plug converter into the A-C wall socket and—the efficiency of the razor is increased almost 100%! The JFD Current Converter changes common household A-C to D-C, producing a much smoother, faster, electric shave. Lengthens life of the shaver. Can be used with any electric shaver operating on AC-DC.

Cat. No. 68-1 List Price \$10.00

JFD SHIELDED PLUGS AND JACKS (Small Size)

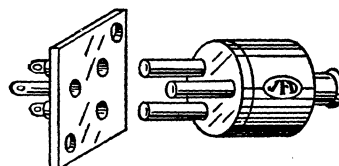


Shell is cadmium-plated steel with fibre insulation inside. Projections securely hold plug after assembly. Come in 3 to 6 prongs in male and female construction. Male unit is 1/8" Bakelite with Standard tube pins. Plugs are polarized. 1" Diameter-cable hole is 3/8", length 7/8".

No.	Male Plug	List
58-3	3 prong	\$0.30
58-4	4 prong	.30
58-5	5 prong	.30
58-6	6 prong	.30

No.	Female Receptacle	List
59-3	3 hole	\$0.30
59-4	4 hole	.30
59-5	5 hole	.30
59-6	6 hole	.30

JFD SHIELDED PLUGS AND CONNECTORS (Midget Size)

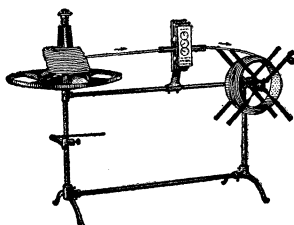


Midget size—only 5/8" diameter of shell; cable hole is 5/16"; length 1 1/8". An economical combination. Perfect shielding — excellent electrical connection.

No.	Shielded Male Plug	List
60-3	3 prongs	\$0.15
60-4	4 prongs	.20
60-5	5 prongs	.25

No.	Female Receptacle (Chassis Type, non-shielded)	List
61-3	3 contact	\$0.25
61-4	4 contact	.25
61-5	5 contact	.25

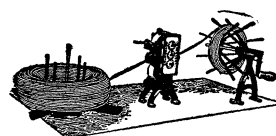
JFD WIRE MEASURING STAND



Complete outfit — payout reel, measuring unit and take-up reel—are all combined on the one sturdy metal stand. A valuable machine for all who sell wire by the length. Units are available separately.

Cat. No.	Description
65-1	Payout Reel
65-2	Measuring Unit
65-3	Take-up Reel
65-C	Complete Outfit

JFD WIRE MEASURING OUTFIT (COUNTER MODEL)



Here is a compact, sturdy wire measuring outfit that can be set up easily on counter, bench or table. More than pays for itself in time saved and exact wire measurements. Measures up to 1000 feet. Very simple to set up and operate—it works silently. Take-up reel is adjustable.

Cat. No.	Description
66-1	Payout Reel
66-2	Measuring Unit
66-3	Take-up Reel
66-C	Complete Outfit



DIAL BELT MANUAL

BELT SPECIFICATIONS—NUMERICAL LISTING

INSTRUCTIONS FOR MEASURING BELTS

In order to determine the size of a belt, if the old belt is available, cut this belt and measure its length when stretched out. This will give you the "Length When Open".

If the old belt is not available or cannot be measured because of its worn condition, stretch a thin thread around the belt pulleys within the set. The measurement of this thread will give you the "INSIDE PULLEY CIRCUMFERENCE". This is not to be confused with the "LENGTH WHEN OPEN". The belt when cut will be approximately 3/16" longer when stretched out.

JFD Belt No.	Inside Pulley Circumference	Length When Open	Models
1	6 $\frac{5}{8}$ "	6 $\frac{11}{16}$ "	Dejur Amsco Zenith
2	6 $\frac{11}{16}$ "	7"	Crosley Crowe Emerson Kingston Majestic Zenith
3	7 $\frac{1}{16}$ "	7 $\frac{3}{16}$ "	Emerson
4	8 $\frac{3}{32}$ "	8 $\frac{9}{32}$ "	Belmont F'bks-Morse Kingston
5	7 $\frac{9}{16}$ "	7 $\frac{3}{4}$ "	Crowe
6	7 $\frac{11}{16}$ "	7 $\frac{13}{16}$ "	Majestic RCA
7	7 $\frac{3}{16}$ "	7 $\frac{3}{16}$ "	Belmont Crowe
8	8 $\frac{9}{16}$ "	8 $\frac{3}{4}$ "	Acratest Simplex
9	8 $\frac{11}{16}$ "	8 $\frac{3}{16}$ "	Acratest F'bks-Morse
10	8 $\frac{1}{2}$ "	8 $\frac{11}{16}$ "	Fada
11	7 $\frac{3}{16}$ "	8 $\frac{3}{16}$ "	Emerson RCA
12	8 $\frac{1}{16}$ "	8 $\frac{3}{16}$ "	Majestic RCA
13	8 $\frac{5}{8}$ "	8 $\frac{11}{16}$ "	Airline Crowe RCA
14	8 $\frac{1}{16}$ "	8 $\frac{5}{8}$ "	Fada Silvertone
15	9 $\frac{1}{16}$ "	9 $\frac{1}{2}$ "	Bosch Lafayette RCA
16	9 $\frac{1}{16}$ "	9 $\frac{5}{8}$ "	Airline Crowe Garod Zenith
17	9 $\frac{1}{16}$ "	9 $\frac{11}{16}$ "	Crowe Simplex Zenith Zephyr
18	10 $\frac{1}{16}$ "	10 $\frac{1}{16}$ "	Emerson
19	9 $\frac{1}{16}$ "	10"	Garod
20	10 $\frac{1}{16}$ "	10 $\frac{3}{4}$ "	Garod Philco
21	10 $\frac{3}{8}$ "	10 $\frac{11}{16}$ "	Lafayette
22	10 $\frac{1}{2}$ "	10 $\frac{1}{16}$ "	RCA
23	10 $\frac{1}{8}$ "	10 $\frac{3}{16}$ "	Airline RCA
24	10 $\frac{1}{16}$ "	10 $\frac{1}{2}$ "	Westinghouse
25	10 $\frac{1}{16}$ "	10 $\frac{1}{16}$ "	Wilcox-Gray

JFD Belt No.	Inside Pulley Circumference	Length When Open	Models
26	10 $\frac{1}{16}$ "	10 $\frac{1}{4}$ "	Belmont Knight Lafayette Ultramar
27	9 $\frac{1}{16}$ "	10 $\frac{1}{8}$ "	Airline Belmont
28	10 $\frac{1}{16}$ "	10 $\frac{1}{16}$ "	Zenith
29	10 $\frac{1}{16}$ "	11"	Bosch
30	11 $\frac{1}{4}$ "	11 $\frac{1}{16}$ "	Fada Grunow Silver-Marshall
31	11 $\frac{5}{16}$ "	11 $\frac{1}{2}$ "	Wells-Gardner
32	11 $\frac{1}{16}$ "	11 $\frac{1}{4}$ "	F'bks-Morse Grunow Kingston
33	11 $\frac{3}{16}$ "	11 $\frac{1}{16}$ "	RCA
34	11 $\frac{1}{2}$ "	11 $\frac{1}{16}$ "	Sparton
35	11 $\frac{3}{16}$ "	11 $\frac{9}{16}$ "	Detrola
36	11 $\frac{1}{16}$ "	11 $\frac{3}{4}$ "	Crosley Dejur Amsco Detrola
37	11 $\frac{9}{16}$ "	11 $\frac{1}{16}$ "	Fada
38	12"	12 $\frac{1}{16}$ "	Zenith
39	12 $\frac{1}{16}$ "	12 $\frac{5}{8}$ "	Admiral Crowe
40	12 $\frac{1}{16}$ "	12 $\frac{1}{2}$ "	F'bks-Morse Lafayette Zenith
41	11 $\frac{1}{16}$ "	12 $\frac{1}{8}$ "	Dewald Fada
42	12 $\frac{1}{32}$ "	12 $\frac{1}{16}$ "	RCA
43	11 $\frac{7}{8}$ "	12 $\frac{1}{16}$ "	RCA
44	12 $\frac{1}{16}$ "	12 $\frac{3}{4}$ "	Case Knight
45	12 $\frac{1}{16}$ "	12 $\frac{7}{8}$ "	Silvertone
46	13 $\frac{1}{8}$ "	13 $\frac{1}{16}$ "	F'bks-Morse Sparton Wells-Gardner Zenith
47	14 $\frac{1}{4}$ "	14 $\frac{1}{16}$ "	Kingston Sparton
48	14 $\frac{3}{16}$ "	15 $\frac{1}{16}$ "	Arvin RCA Strom-Carlson
49	15 $\frac{3}{16}$ "	15 $\frac{1}{16}$ "	Zenith
50	16 $\frac{1}{16}$ "	16 $\frac{5}{8}$ "	Knight RCA Wells-Gardner
51	16 $\frac{1}{4}$ "	16 $\frac{1}{16}$ "	Airline

JFD Belt No.	Inside Pulley Circumference	Length When Open	Models
52	10 $\frac{1}{16}$ "	10 $\frac{3}{4}$ "	Garod Grunow North Elect.
53	8 $\frac{1}{16}$ "	8 $\frac{7}{8}$ "	Belmont Majestic
54	12 $\frac{1}{16}$ "	12 $\frac{1}{4}$ "	F'bks-Morse
55	7 $\frac{1}{16}$ "	7 $\frac{7}{8}$ "	Crowe
56	7 $\frac{3}{16}$ "	7 $\frac{3}{16}$ "	Emerson
57	7 $\frac{3}{16}$ "	7 $\frac{9}{16}$ "	Capehart
58	6 $\frac{3}{4}$ "	6 $\frac{11}{16}$ "	Crosley
59	8 $\frac{1}{16}$ "	8 $\frac{5}{8}$ "	Crowe Emerson
60	8 $\frac{3}{4}$ "	8 $\frac{11}{16}$ "	Majestic Zenith
61	6 $\frac{3}{16}$ "	7 $\frac{3}{16}$ "	Emerson Majestic
62	8 $\frac{1}{4}$ "	8 $\frac{1}{16}$ "	Airmaster Emerson
63	9 $\frac{5}{8}$ "	9 $\frac{1}{16}$ "	Airline Wells-Gardner
64	10 $\frac{1}{16}$ "	10 $\frac{9}{16}$ "	Airline Wells-Gardner
65	11 $\frac{3}{16}$ "	11 $\frac{3}{8}$ "	Airline
66	9 $\frac{7}{8}$ "	10 $\frac{1}{16}$ "	Coronada
67	12 $\frac{1}{4}$ "	12 $\frac{1}{16}$ "	Admiral
68	17 $\frac{1}{16}$ "	17 $\frac{5}{8}$ "	Admiral Knight
69	11 $\frac{3}{16}$ "	12 $\frac{3}{16}$ "	Admiral Knight
70	16 $\frac{1}{16}$ "	16 $\frac{3}{16}$ "	Wells-Gardner
71	11 $\frac{1}{16}$ "	11 $\frac{3}{8}$ "	Ultramar
72	8 $\frac{3}{16}$ "	8 $\frac{1}{16}$ "	Emerson
73	21 $\frac{1}{16}$ "	21 $\frac{1}{4}$ "	Majestic
74	22 $\frac{1}{16}$ "	22 $\frac{3}{4}$ "	Majestic
75	12 $\frac{1}{16}$ "	13 $\frac{1}{8}$ "	Sparton
76	8 $\frac{1}{16}$ "	9 $\frac{1}{8}$ "	Zenith
77	12 $\frac{7}{8}$ "	13 $\frac{1}{16}$ "	Zenith
78	12 $\frac{1}{16}$ "	12 $\frac{1}{16}$ "	Crowe
79	11"	11 $\frac{1}{16}$ "	Zenith
80	9 $\frac{1}{16}$ "	9 $\frac{3}{8}$ "	Zenith
81	17 $\frac{1}{16}$ "	17 $\frac{3}{4}$ "	Wells-Gardner
82	18 $\frac{1}{16}$ "	18 $\frac{3}{4}$ "	Wells-Gardner
83	14 $\frac{1}{16}$ "	14 $\frac{3}{4}$ "	Wells-Gardner
84	8 $\frac{1}{16}$ "	9"	Zenith
85	15 $\frac{1}{16}$ "	16"	Garod
86	15 $\frac{1}{16}$ "	15 $\frac{5}{8}$ "	Garod
87	16 $\frac{9}{16}$ "	16 $\frac{3}{8}$ "	Admiral
88	7 $\frac{1}{16}$ "	8"	General Elect.
89	16 $\frac{1}{16}$ "	17"	Arvin Garod
90	19 $\frac{1}{16}$ "	19 $\frac{3}{4}$ "	Arvin
91	12 $\frac{1}{4}$ "	12 $\frac{1}{16}$ "	Wells-Gardner
92	16 $\frac{1}{16}$ "	16"	Airline
93	16 $\frac{1}{16}$ "	17 $\frac{1}{8}$ "	Arvin
94	14 $\frac{3}{16}$ "	14 $\frac{3}{16}$ "	Arvin
95	11 $\frac{1}{16}$ "	11 $\frac{1}{16}$ "	Kingston Belmont Dejur Amsco Detrola



DIAL BELT MANUAL

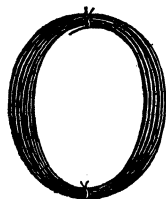
BELT SPECIFICATIONS—LISTED ACCORDING TO BELT SIZE

Inside Pulley Circumference	Length When Open	JFD Belt No.	Models	Inside Pulley Circumference	Length When Open	JFD Belt No.	Models	Inside Pulley Circumference	Length When Open	JFD Belt No.	Models
6 $\frac{5}{8}$ "	6 $\frac{1}{8}$ "	1	Dejur Amsco Zenith	9 $\frac{3}{8}$ "	9 $\frac{5}{16}$ "	63	Airline Wells-Gardner	12"	12 $\frac{3}{16}$ "	38	Zenith
6 $\frac{3}{4}$ "	6 $\frac{1}{8}$ "	58	Crosley	9 $\frac{7}{16}$ "	9 $\frac{5}{8}$ "	16	Airline Crowe Garod Zenith	12 $\frac{1}{8}$ "	12 $\frac{1}{4}$ "	78	Crowe
6 $\frac{1}{2}$ "	7"	2	Crosley Crowe Emerson Kingston Majestic Zenith	9 $\frac{1}{2}$ "	10"	19	Garod	12 $\frac{1}{4}$ "	12 $\frac{1}{8}$ "	54	F'bks-Morse
6 $\frac{3}{8}$ "	7 $\frac{3}{8}$ "	61	Emerson Majestic	9 $\frac{5}{8}$ "	10 $\frac{1}{16}$ "	66	Coronado	12 $\frac{3}{8}$ "	12 $\frac{1}{2}$ "	42	RCA
7 $\frac{3}{8}$ "	7 $\frac{3}{8}$ "	57	Capehart	9 $\frac{1}{2}$ "	10 $\frac{1}{8}$ "	27	Airline Belmont	12 $\frac{1}{2}$ "	12 $\frac{1}{4}$ "	67	Admiral
7 $\frac{3}{8}$ "	7 $\frac{1}{2}$ "	56	Emerson	10 $\frac{3}{8}$ "	10 $\frac{3}{8}$ "	23	Airline RCA	12 $\frac{1}{2}$ "	12 $\frac{1}{8}$ "	91	Wells-Gardner (Open wide belt)
7 $\frac{1}{2}$ "	7 $\frac{1}{2}$ "	6	Majestic RCA	10 $\frac{1}{2}$ "	10 $\frac{1}{4}$ "	26	Belmont Knight Lafayette Ultramar	12 $\frac{5}{8}$ "	12 $\frac{1}{2}$ "	40	F'bks-Morse Lafayette Zenith
7 $\frac{5}{8}$ "	7 $\frac{3}{4}$ "	5	Crowe	10 $\frac{5}{8}$ "	10 $\frac{1}{2}$ "	24	Westinghouse	12 $\frac{7}{8}$ "	12 $\frac{5}{8}$ "	39	Admiral Crowe
7 $\frac{1}{2}$ "	7 $\frac{3}{8}$ "	3	Emerson	10 $\frac{1}{2}$ "	10 $\frac{1}{8}$ "	64	Airline Wells-Gardner	12 $\frac{7}{8}$ "	12 $\frac{3}{4}$ "	44	Case Knight
7 $\frac{1}{8}$ "	7 $\frac{7}{8}$ "	55	Crowe	10 $\frac{3}{4}$ "	10 $\frac{3}{8}$ "	28	Zenith	12 $\frac{7}{8}$ "	12 $\frac{7}{8}$ "	45	Silvertone
7 $\frac{3}{4}$ "	7 $\frac{3}{4}$ "	7	Belmont Crowe	10 $\frac{3}{4}$ "	10 $\frac{1}{2}$ "	18	Emerson	12 $\frac{7}{8}$ "	13 $\frac{1}{8}$ "	77	Zenith
7 $\frac{1}{2}$ "	8"	88	General Elect.	10 $\frac{3}{4}$ "	10 $\frac{3}{4}$ "	25	Wilcox-Gray	12 $\frac{1}{2}$ "	13 $\frac{1}{8}$ "	75	Sparton
7 $\frac{3}{8}$ "	8 $\frac{3}{8}$ "	11	Emerson RCA	10 $\frac{1}{2}$ "	10 $\frac{1}{16}$ "	22	RCA	13 $\frac{1}{8}$ "	13 $\frac{1}{8}$ "	46	F'bks-Morse Sparton Wells-Gardner Zenith
8 $\frac{3}{8}$ "	8 $\frac{3}{8}$ "	4	Belmont F'bks-Morse Kingston	10 $\frac{5}{8}$ "	10 $\frac{3}{4}$ "	52	Garod Grunow North Elect.	14 $\frac{3}{8}$ "	14 $\frac{3}{8}$ "	94	Arvin Kingston
8 $\frac{3}{16}$ "	8 $\frac{3}{8}$ "	59	Crowe Emerson	10 $\frac{1}{2}$ "	10 $\frac{7}{8}$ "	20	Garod Philco	14 $\frac{1}{2}$ "	14 $\frac{1}{8}$ "	47	Kingston Sparton
8 $\frac{1}{4}$ "	8 $\frac{7}{16}$ "	62	Airmaster Emerson	10 $\frac{3}{4}$ "	10 $\frac{1}{8}$ "	21	Lafayette	14 $\frac{1}{8}$ "	14 $\frac{3}{4}$ "	83	Wells-Gardner
8 $\frac{3}{8}$ "	8 $\frac{1}{2}$ "	72	Emerson	10 $\frac{1}{2}$ "	11"	29	Bosch	14 $\frac{3}{8}$ "	15 $\frac{1}{8}$ "	48	Arvin RCA Strom-Carlson
8 $\frac{1}{8}$ "	8 $\frac{5}{8}$ "	14	Fada Silvertone	11"	11 $\frac{3}{16}$ "	79	Zenith	15 $\frac{3}{8}$ "	15 $\frac{1}{2}$ "	49	Zenith
8 $\frac{5}{8}$ "	8 $\frac{3}{4}$ "	8	Acratest Simplex	11 $\frac{1}{8}$ "	11 $\frac{1}{4}$ "	32	Grunow F'bks-Morse Kingston	15 $\frac{1}{4}$ "	15 $\frac{5}{8}$ "	86	Garod
8 $\frac{1}{2}$ "	8 $\frac{1}{2}$ "	10	Fada	11 $\frac{3}{8}$ "	11 $\frac{3}{8}$ "	35	Detrola	15 $\frac{1}{2}$ "	16"	85	Garod
8 $\frac{1}{4}$ "	8 $\frac{3}{8}$ "	9	Acratest F'bks-Morse	11 $\frac{1}{2}$ "	11 $\frac{1}{2}$ "	33	RCA	15 $\frac{1}{2}$ "	16"	92	Airline (Open wide belt)
8 $\frac{3}{8}$ "	8 $\frac{3}{8}$ "	12	Majestic RCA	11 $\frac{1}{8}$ "	11 $\frac{3}{8}$ "	65	Airline	16 $\frac{3}{8}$ "	16 $\frac{3}{8}$ "	87	Admiral
8 $\frac{5}{8}$ "	8 $\frac{1}{2}$ "	13	Airline Crowe RCA	11 $\frac{1}{8}$ "	11 $\frac{3}{8}$ "	71	Ultramar	16 $\frac{1}{4}$ "	16 $\frac{3}{8}$ "	50	Knight RCA Wells-Gardner
8 $\frac{1}{2}$ "	8 $\frac{7}{8}$ "	53	Belmont Majestic	11 $\frac{1}{4}$ "	11 $\frac{7}{16}$ "	30	Fada Grunow Silver-Marshall	16 $\frac{1}{2}$ "	16 $\frac{1}{2}$ "	70	Wells-Gardner
8 $\frac{3}{4}$ "	8 $\frac{1}{2}$ "	60	Majestic Zenith	11 $\frac{3}{8}$ "	11 $\frac{1}{2}$ "	37	Fada	16 $\frac{1}{2}$ "	16 $\frac{1}{8}$ "	51	Airline
8 $\frac{1}{8}$ "	9"	84	Zenith	11 $\frac{1}{2}$ "	11 $\frac{1}{2}$ "	31	Wells-Gardner	16 $\frac{1}{8}$ "	17"	89	Arvin Garod
8 $\frac{1}{8}$ "	9 $\frac{1}{8}$ "	76	Zenith	11 $\frac{3}{4}$ "	11 $\frac{3}{4}$ "	95	Belmont Dejur Amsco Detrola	16 $\frac{1}{8}$ "	17 $\frac{1}{8}$ "	93	Arvin
9 $\frac{1}{8}$ "	9 $\frac{3}{8}$ "	80	Zenith	11 $\frac{1}{2}$ "	11 $\frac{1}{8}$ "	34	Sparton	17 $\frac{1}{8}$ "	17 $\frac{7}{8}$ "	68	Admiral Knight
9 $\frac{5}{8}$ "	9 $\frac{1}{2}$ "	17	Crowe Simplex Zenith Zephyr	11 $\frac{1}{8}$ "	11 $\frac{3}{4}$ "	36	Crosley Dejur Amsco Detrola	17 $\frac{1}{8}$ "	17 $\frac{3}{4}$ "	81	Wells-Gardner
9 $\frac{5}{8}$ "	9 $\frac{1}{2}$ "	15	Bosch Lafayette RCA	11 $\frac{7}{8}$ "	12 $\frac{1}{8}$ "	43	RCA	18 $\frac{1}{8}$ "	18 $\frac{3}{4}$ "	82	Wells-Gardner
				11 $\frac{3}{4}$ "	12 $\frac{3}{8}$ "	69	Admiral Knight	19 $\frac{1}{8}$ "	19 $\frac{3}{4}$ "	90	Arvin
				11 $\frac{1}{8}$ "	12 $\frac{1}{8}$ "	41	Dewald Fada	21 $\frac{1}{8}$ "	21 $\frac{1}{4}$ "	73	Majestic
								22 $\frac{1}{8}$ "	22 $\frac{3}{4}$ "	74	Majestic



AERIAL KITS AND WIRE

JFD AERIAL WIRE

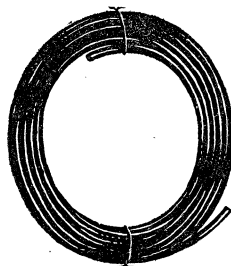


7 Strand 24 gauge bare copper aerial wire. High tensile strength—no stretching, no sagging.
 937.....50 ft. coil
 938.....100 ft. coil
 939.....1000 ft. metal spool

Heavy duty antenna wire—7 strand 24 gauge bare copper. High tensile strength — no stretching, no sagging.

970.....50 ft. coil
 971.....100 ft. coil
 972.....1000 ft. metal spool

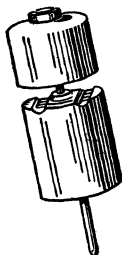
JFD LEAD-IN WIRE



Stranded, rubber-covered No. 18 lead-in wire. Will withstand excessive weather conditions.

922.....50 ft. coil
 923.....100 ft. coil
 924.....1000 ft. metal spool

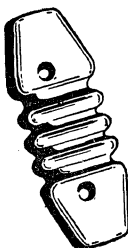
JFD NAIL-IT KNOB



Two piece glazed porcelain knob. Heavy nail insures security.

67-3
 List Price \$0.10

JFD PORCELAIN INSULATOR



Made to withstand greatest strain. Finest grade of glazed porcelain. Will not crack or absorb moisture.

No. 67-4
 List Price \$0.15

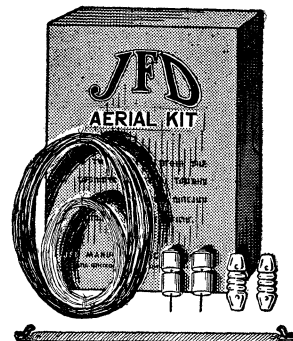
JFD LEAD-IN STRIP



Fully insulated-covered with a heavily varnished braid covering to keep weatherproof. Fahnestock clips are firmly soldered to ends of strip.

No. 67-5.....List Price \$0.15

JFD STANDARD ANTENNA KIT



Contains everything needed for aerial installation. Contains:

50 ft. of 7 strand, 24 gauge bare copper aerial wire.
 50 ft. #18 rubber-covered lead-in wire.
 10 ft. ground wire. 1 Ground Clamp.
 2 Porcelain insulators.
 2 Nail-it Knobs. 1 Lead-in Strip.
 All packed in beautiful box.

No. 67-10.....List Price \$1.75

JFD DELUXE ANTENNA KIT

Finest materials in a kit that contains everything needed for complete antenna installation. Consists of:

75 ft. of 7 strand, 22 gauge heavy duty bare copper aerial wire.
 75 ft. #18 rubber-covered lead-in wire.
 1 Three-pole lightning arrester.
 10 ft. of ground wire.
 2 Porcelain insulators.
 2 Nail-it knobs.
 1 Lead-in strip.
 1 Ground clamp.

All packed in a beautiful box.

67-20.....List Price \$2.75

JFD "HANDY-HANK" WIRE SPECIALTIES

Here is JFD's answer to your everyday, hard-to-handle wire problems! The JFD HANDY-HANK prevents tangling, kinking and waste. The most popular types of wire are put up for the serviceman in neat, compact, easy-to-handle packages.



ONE-QUARTER ACTUAL SIZE

No.	Description	Serviceman's Net Cost
20-1	#22 Solid Hook-up Wire*	\$0.50
20-2	#20 Solid Hook-up Wire*	.50
20-3	#18 Solid Hook-up Wire*	.50
20-4	#22 Stranded Hook-up Wire*	.50
20-5	#20 Stranded Hook-up Wire*	.50
20-6	#18 Stranded Hook-up Wire*	.50
20-7	#16 Stranded Hook-up Wire*	.50
20-8	#14 Stranded Hook-up Wire*	.50
20-9	#22 Shielded Phonograph Wire	.50
20-10	#24 Extra Fine Shielded Phonograph Wire	.50
20-11	#18 Test Lead Wire	.50
20-12	#18 Heavy Wall Test Lead Wire	.50
20-13	#18 Shielded Lead-in Wire	.50

* Hook-up wires comes in all colors—yellow, blue, red, green, black and brown.



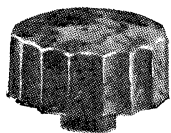
RADIO KNOBS



4-1U Universal push-on knob — diameter $\frac{3}{8}$ ", height $\frac{7}{8}$ "; Walnut, Ivory, Maroon, Mahogany, Black.....List \$0.10



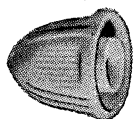
4-2U Universal push-on knob diameter $\frac{3}{8}$ ", height $\frac{1}{8}$ "; Walnut, Ivory, Maroon, Mahogany, Black.....List \$0.10



4-3 Set screw — dia. $\frac{3}{8}$ ", height $\frac{1}{2}$ "; Walnut, Ivory.

List \$0.15

4-3K Knurled hole.
List \$0.10



4-4K Knurled hole, diameter $\frac{3}{8}$ ", height $\frac{3}{4}$ "; Walnut, IvoryList \$0.10



4-5 Set screw — diameter $\frac{1}{8}$ ", height $\frac{1}{8}$ "; Walnut, Ivory.

List \$0.15

4-5K Knurled hole.
List \$0.10

4-5S SpringList \$0.10



4-6K Knurled hole; diameter $\frac{3}{8}$ ", height $\frac{1}{8}$ "; Walnut, IvoryList \$0.10



4-7K Knurled hole! diameter $\frac{3}{8}$ ", height $\frac{1}{2}$ "; Walnut, IvoryList \$0.10



4-8K Knurled hole, diameter $\frac{3}{8}$ "; height $\frac{1}{8}$ "; Walnut, IvoryList \$0.10



4-9K Knurled hole, diameter $\frac{3}{8}$ ", height $\frac{3}{8}$ "; Walnut, IvoryList \$0.10



4-10 Set screw, diameter $\frac{1}{8}$ ", height $\frac{1}{8}$ "; Walnut, Ivory.

List \$0.15

4-10K Knurled hole.
List \$0.10



4-11K Knurled hole, diameter $\frac{3}{8}$ ", height $\frac{1}{8}$ "; Walnut, IvoryList \$0.10



4-12 Set screw, diameter $\frac{1}{8}$ ", height $\frac{1}{8}$ "; Walnut, Ivory.

List \$0.15

4-12K Knurled hole.
List \$0.10

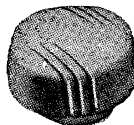


JFD ASSORTMENT KITS OF 35 KNOBS EACH

No.	List
4-93 Set screw knobs.....	\$5.25
4-94 Spring knobs	3.50
4-95 Knurled knobs	3.50

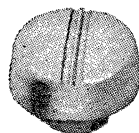


4-13S Spring, diameter 1", height $\frac{3}{8}$ "; Walnut, Ivory.....List \$0.10



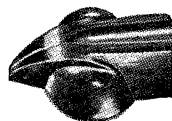
4-14K Knurled hole, diameter $\frac{1}{2}$ ", height $\frac{1}{8}$ "; Walnut, Ivory.....List \$0.10

4-14S Spring.....List \$0.10



4-15K Knurled hole, diameter $\frac{1}{2}$ ", height $\frac{1}{8}$ "; Walnut, Ivory.....List \$0.10

4-15S Spring.....List \$0.10



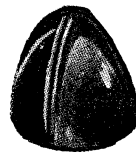
4-16 Set screw, length 1 $\frac{1}{4}$ "; Brown, BlackList \$0.15



4-17 Set screw, length 2"; Brown, BlackList \$0.21



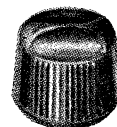
4-18 Set screw, diameter $\frac{3}{8}$ ", height $\frac{1}{2}$ "; Walnut, Ivory.....List \$0.15



4-19 Set screw, diameter $\frac{7}{8}$ ", height $\frac{7}{8}$ "; Walnut, Ivory.
List \$0.14



4-20 Set screw, diameter $\frac{3}{4}$ ", height $\frac{3}{4}$ "; Walnut, Ivory.
List \$0.12



4-21 Set screw, diameter $\frac{3}{4}$ ", height $\frac{1}{2}$ "; Walnut, Ivory.
List \$0.11



4-22 Set screw, diameter $\frac{1}{2}$ ", height $\frac{1}{2}$ "; Walnut, Ivory.
List \$0.11



4-23 Set screw, diameter $\frac{1}{2}$ ", height $\frac{1}{2}$ "; Walnut, Ivory.
List \$0.12



4-24 Set screw, diameter $\frac{3}{4}$ ", height $\frac{1}{2}$ ", length 1 $\frac{1}{2}$ "; Brown, Black.....List \$0.14

JFD Assortment of 12 (6 Pairs) Dial Knobs of Most Popular Types in Clear Plastic Envelopes



No.	List
4-90 Set screw knobs.....	\$1.80
4-91 Spring knobs	1.20
4-92 Knurled knobs	1.20



F-M and Television Aerials

A WORD ABOUT JFD FM AND TELEVISION ANTENNAS . . .

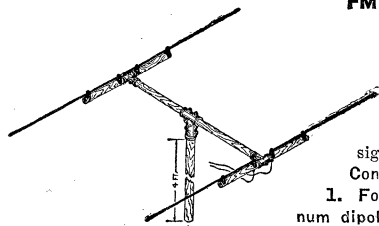
JFD Antennas are made for easy installation by the average person. These antennas will give maximum reception efficiency for the band for which it is intended. They are, in our opinion, the finest antennas that modern radio engineering has devised.

FEATURES OF ALL JFD FM and TELEVISION ANTENNAS:

1. Elements are of $\frac{3}{8}$ " diameter rigid aluminum tubing.
2. Elements are supported by stand-off bakelite insulators to prevent sagging.
3. Light-weight and strong.
4. Lacquer impregnated hardwood poles.
5. Solid cast aluminum joint brackets.
6. Well built and all-around sturdy construction to withstand all weather conditions.
7. Correct and up-to-date engineering design.
8. All come complete with all necessary insulators, hardware, and instructions.

JFD STANDARD DIPOLE WITH REFLECTOR

FM and Television Antenna



Combination dipole and reflector assembly for difficult locations where signal strength is low.

Consists of:

1. Four $\frac{3}{8}$ " gauge aluminum dipole rods.
2. Four lacquer impregnated hardwood poles.
3. Aluminum angle joint brackets.
4. All necessary insulators, hardware, and instructions.

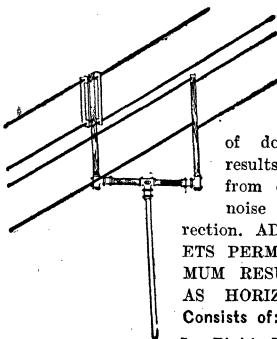
ADJUSTABLE ANGLE JOINT BRACKETS PERMIT TILTING OF DIPOLE IN VERTICAL PLANE, FOR MAXIMUM RECEPTION OF BOTH VERTICAL AND HORIZONTAL POLARIZED SIGNALS.

No. TA-3—Standard dipole assembly with reflector, as illustrated, complete with all necessary accessories.....List Price \$15.00

No. TA-3L—Same as above with 75 ft. twin-lead wire.
List Price \$18.50

JFD DOUBLE DIPOLE WITH DOUBLE REFLECTORS

F-M and Television Antenna



Recommended for locations where serious problems of interference or multipath images are encountered. The arrangement of double collectors, as illustrated, results in greatly improved reception from one direction and a decrease in noise and reflection from opposite direction. ADJUSTABLE ALUMINUM BRACKETS PERMIT TILTING TO OBTAIN MAXIMUM RESULTS ON VERTICAL AS WELL AS HORIZONTAL POLARIZED SIGNALS.

Consists of:

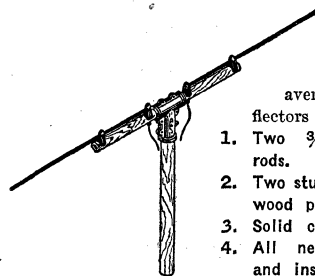
1. Eight $\frac{3}{8}$ " gauge aluminum dipole rods.
2. Six lacquer impregnated hardwood poles.
3. Aluminum angle joint brackets.
4. All necessary insulators, hardware, and instructions.

No. TA-22—Double Dipole Antenna with Double Reflectors, complete as illustrated,List Price \$35.00

No. TA-22L—Same as above with 75 ft. of twin-lead wire.
List Price \$38.50

JFD STANDARD DIPOLE

F-M and Television Antenna



Here is an excellent popular-priced dipole antenna for average installations where reflectors are unnecessary. Consists of:

1. Two $\frac{3}{8}$ " gauge aluminum dipole rods.
2. Two sturdy lacquer impregnated hardwood poles.
3. Solid cast aluminum joint brackets.
4. All necessary insulators, hardware, and instructions.

No. TA-2—Standard Dipole Assembly as illustrated, complete with all necessary accessoriesList Price \$9.50

No. TA-2L—Same as above with 75 ft. Twin-lead wire.
List Price \$13.00

JFD "ROTO-FLEX" DIPOLE

F-M and Television Antenna

OBTAINS MAXIMUM DIRECTIONAL EFFECT!

Here is one antenna that may be turned to any position — horizontally, diagonally, vertically. Dipole assembly may be rotated in a vertical as well as a horizontal plane, so that best possible position can be selected. Brackets can then be securely locked. Particularly valuable in congested areas where tall buildings create problems of interference, reflection, etc. The JFD "ROTO-FLEX" solves these problems simply, efficiently, and economically!

Consists of:

1. Two $\frac{3}{8}$ " gauge aluminum dipole rods.
2. Two sturdy lacquer impregnated hardwood poles.
3. Solid cast aluminum brackets.
4. All necessary insulators, hardware and instructions.

No. TA-25—Complete "ROTO-FLEX" assembly, as illustrated.
List Price \$12.50

No. TA-25L—Same as above with 75 ft. of twin-lead wire.
List Price \$16.00

JFD DELUXE 3 ELEMENT ANTENNA

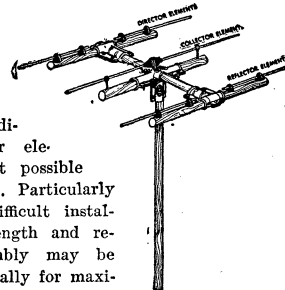
F-M and Television Antenna

Recommended by leading manufacturers of F-M and Television Receivers for use with their equipment. This 3-element assembly, consisting of director, collector and reflector elements, will afford the highest possible signal pick-up in any location. Particularly recommended for extremely difficult installations, where low signal strength and reflection prevail. Dipole assembly may be adjusted vertically and horizontally for maximum efficiency. Consists of:

1. Six $\frac{3}{8}$ " gauge aluminum dipole rods.
2. Five lacquer impregnated hardwood poles.
3. Three sets of aluminum right angle joint castings.
4. All necessary insulators, hardware and instructions.

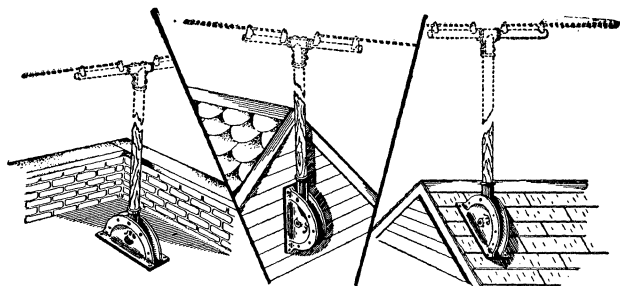
No. TA-4—DeLuxe Three-element Antenna complete, as illustrated.
List Price \$25.00

No. TA-4L—Same as above with 75 ft. of twin-lead wire.
List Price \$28.50





F-M TELEVISION ANTENNA ACCESSORIES



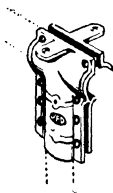
JFD MULTI-POSITION BRACKET

Here is an FM and Television Antenna bracket that takes care of all mounting problems. With this bracket, Antennas can be mounted anywhere—on wall, on window sill, on angular gable roof, on flat parapet, etc. Made of cast aluminum—light weight. Very simple to install. Will take 1½" pole. Dimensions: Height 7"; length 6"; width 4".

Cat. No. BR-8 List Price \$10.00

ADJUSTABLE ALUMINUM RIGHT ANGLE POLE JOINTS

With Supporting Lips for Dipole
Insulator Assembly



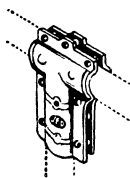
Exclusive JFD design permits mounting of wooden poles or iron pipes at right angle. Extended lips afford rigid support for dipole insulator assembly. Complete bracket kit consists of two identical half brackets, which fit snugly around pipe or pole, and eight sets of machine screws, nuts, and lockwashers, individually packaged.

No. 405—Pair of Brackets and Hardware.

List Price\$4.25

STANDARD ALUMINUM RIGHT ANGLE POLE JOINTS

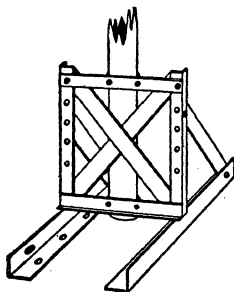
Similar to No. 405, but without supporting lips. An exclusive JFD design. Consists of two identical half brackets, designed to hold two poles or pipes rigidly at right angles. Extremely strong and durable. Complete with seven sets of machine screws, lockwashers, and nuts, individually packed.



No. 406—Pair of Brackets and Hardware.

List Price\$4.25

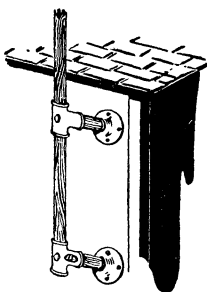
ANGLE STEEL MOUNTING BRACKET



Easily mounted on roof, wall, corner or chimney. Very strong trussed and welded construction.

No. BR3 (12"x12") List Price \$20.00

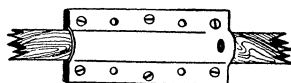
DOUBLE MOUNTING ASSEMBLY



A convenient and sturdy mounting designed to be installed on wall or inside parapet. May be adjusted from 6 to 12 inches wall.

No. BR7
List Price
per pair
\$14.00

WOODEN POLE SLEEVE CONNECTOR



For joining mounting poles or for fastening guy wires to top of pole. Heavy steel, aluminum plated.

No. BR23 List Price \$1.25

WOODEN MOUNTING POLE

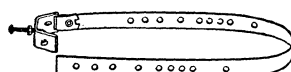


For increasing the height of the standard where necessary. Made of hard wood lacquered. 1¼" thick.

No. BR19—4 feet List Price \$0.60

No. BR20—6 feet List Price .90

MOUNTING STRAP



For mounting pole on vent pipe. 18 inches long.

No. BR9 List Price \$0.20

PIPE CLAMPS



Will be found useful in fastening poles on wall, roof, chimney, inside of parapet or elsewhere.

No. BR18 List Price \$0.06

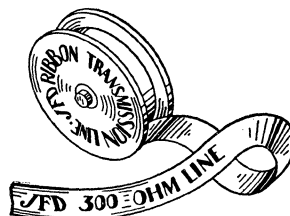
JFD WALL INSULATOR

Exclusive JFD design. Securely locks television tape in place in all adverse weather. Made of plastic—screw is countersunk to avoid shorting.



No. WI-100 List Price \$0.15

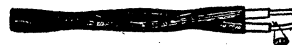
JFD TWIN-LEAD TRANSMISSION LINE



Extruded parallel ribbon type lead-in wire. Insulated with polyethylene—300 OHM surge impedance. Highly recommended for F-M and Television receivers. Made to conform with exacting requirements and will withstand severest conditions of weather and use.

No. TW-1—1000' coils List Price \$48.00

JFD TRANSMISSION WIRE



Two conductor transmission wire, 20 gauge, cotton braided, weatherproof impregnated. In 1000 foot mill length spools.

No. 945-C—1000' spool.

RG59U CABLE

Coaxial cable recommended for use where automobile ignition interferes. Increases signal gain over parallel open pairs. The copper braid is used on one side of the line. Therefore it is advisable to try reversing the lead at the receiver for best operation.

No. TW-2 List Price \$0.18½ per foot
(Mill reel 1000 feet)

JFD DOUBLET LIGHTNING ARRESTER



Specially designed to match JFD Home Antennas, as well as all other makes. Has built-in condenser. Three-pole connection.

No. 403 List Price Ea. \$0.75